



1-1963

Ursinus College Catalogue for the Ninety-fourth Academic Year, 1963-1964

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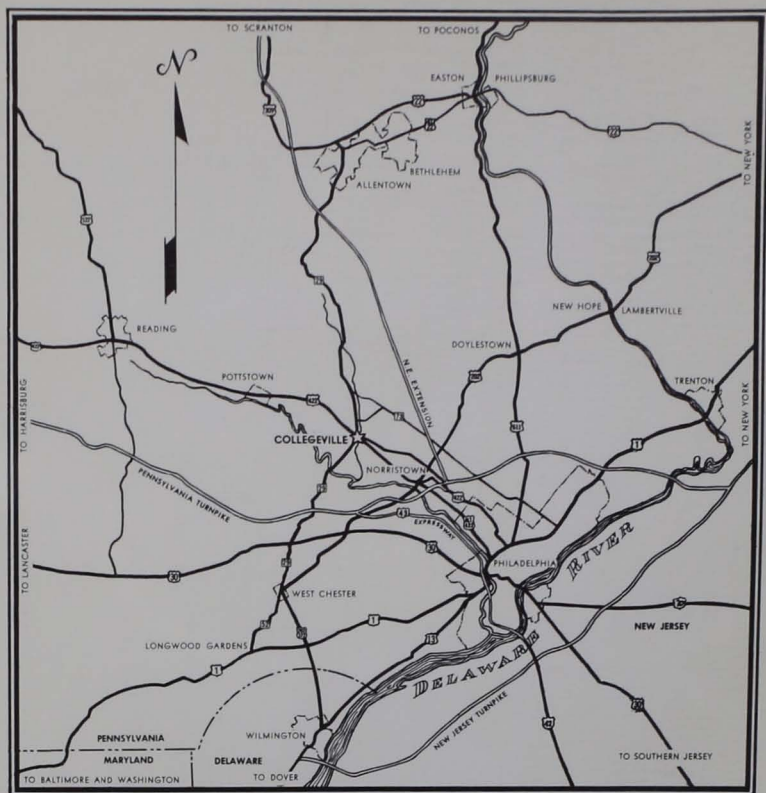
1963-1964

Vol. 61 No. 1

Catalogue Number

**URSINUS
COLLEGE
BULLETIN**





Ursinus College is located in Collegeville, a borough in Montgomery County, Pennsylvania, twenty-five miles northwest of Philadelphia. U. S. Route 422 and Pennsylvania State Highway 29 intersect at Collegeville. It may be reached from Philadelphia by means of Reading or Philadelphia and Western (69th Street Terminal) railroads to Norristown, Pennsylvania, from where buses leave for Collegeville.

Vol. LXI

No. 1

URSINUS COLLEGE BULLETIN

CATALOGUE NUMBER

JANUARY 1963

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THE
URSINUS
COLLEGE
BULLETIN



THE
URSINUS COLLEGE
BULLETIN



Catalogue Number

for the

Ninety-Fourth Academic Year

1963-1964

Collegeville, Pennsylvania

January, 1963

CORRESPONDENCE WITH URSINUS COLLEGE

Communications with the College should be addressed to the appropriate administrative officer.

GENERAL COLLEGE MATTERS

The President

ACADEMIC STANDING OF STUDENTS AND REQUESTS FOR TRANSCRIPTS

The Dean

ADMISSIONS, SCHOLARSHIPS, SUMMER SCHOOL

The Director of Admissions

EVENING SCHOOL

The Director of the Evening School

PAYMENT OF BILLS

The Treasurer's Office

STUDENT EMPLOYMENT

The Director of Student Employment

PLACEMENT OF GRADUATES

The Director of Placement

SOCIAL REGULATIONS AND DORMITORIES FOR MEN

The Dean of Men

SOCIAL REGULATIONS AND DORMITORIES FOR WOMEN

The Dean of Women

ALUMNI AFFAIRS

The Alumni Secretary

The Post Office address is Collegeville, Pennsylvania

The College telephone number is HUXley 9-3311 (Area Code 215)

Visitors to the College are welcome. Student guides are available when the College is in session. The offices of the College are open Monday through Friday 9-12 and 1-5 and on Saturdays 9-12. The Office of Admissions will be closed on Saturdays from June 15 to Labor Day. Applicants for admission are expected to write for an appointment.

Information regarding public transportation and highway routes to Collegeville will be found below the map on the inside of the cover of the Catalogue.

TABLE OF CONTENTS

	PAGE
THE COLLEGE CALENDAR FOR 1963-1964	7
THE DIRECTORS	9
THE ADMINISTRATION	11
THE FACULTY, 1962-1963	13
HISTORICAL SKETCH	21
COLLEGE ACTIVITIES	23
BUILDINGS AND EQUIPMENT	27
ADMISSION	32
EXPENSES	39
GENERAL INFORMATION	43
SCHOLARSHIPS AND AID TO STUDENTS	47
THE EDUCATIONAL PROGRAM	59
COURSES OF INSTRUCTION	63
DEPARTMENTAL REQUIREMENTS	104
PRIZES, HONORS, DEGREES	111
LIST OF STUDENTS, 1962-1963	115
ALUMNI ASSOCIATION	126
INDEX	128

THE CALENDAR FOR 1963-1964

1963

JANUARY						
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1964

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THE COLLEGE CALENDAR 1963-1964

1963

January	2	Wednesday	Christmas Recess ends, 8:00 A.M.
January	17	Thursday	First Semester examinations begin
January	25	Friday	First Semester ends, 5:30 P.M.
February	4	Monday	Second Semester begins, 8:00 A. M. Registration of new students
March	1	Friday	Last day for filing Open Scholarships and Financial Grant Applications
March	22	Friday	Spring Recess begins, 5:30 P.M. Mid-Semester grades due
April	1	Monday	Spring Recess ends, 8:00 A.M.
April	12	Friday	Good Friday, no classes
May	23	Thursday	Second Semester examinations begin
May	31	Friday	Second Semester examinations end
June	1	Saturday	Alumni Day
June	2	Sunday	Baccalaureate Service, 10:45 A.M.
June	3	Monday	Commencement, 11:00 A.M.
June	10	Monday	Summer School begins, 8:00 A.M.
August	30	Friday	Summer School ends, 5:30 P.M.
September	28	Saturday	Freshman Program begins, Academic Convocation, 4:00 P.M.
September	30	Monday	Registration of new students
October	2	Wednesday	First Semester begins, 8:00 A.M.
October	19	Saturday	Parents' Day
November	9	Saturday	Homecoming Day
November	11	Monday	Mid-semester grades due
November	27	Wednesday	Thanksgiving Recess begins, 5:30 P.M.
December	2	Monday	Thanksgiving Recess ends, 8:00 A.M.
December	20	Friday	Christmas Recess begins, 5:30 A.M.

1964

January	6	Monday	Christmas Recess ends, 8:00 A.M.
January	23	Thursday	First Semester examinations begin
January	31	Friday	First Semester examinations end, 5:30 P.M.
February	10	Monday	Second Semester begins, 8:00 A. M. Registration of new students
March	2	Monday	Last Day for filing Open Scholarship and Financial Grant applications
March	26	Thursday	Spring Recess begins, 5:30 P.M. Mid-Semester grades due
April	6	Monday	Spring Recess ends 8:00 A.M.
May	28	Thursday	Second Semester Examinations begin
June	5	Friday	Second Semester Examinations end
June	6	Saturday	Alumni Day
June	7	Sunday	Baccalaureate Service, 10:45 A.M.
June	8	Monday	Commencement, 11:00 A.M.
June	15	Monday	Summer School begins, 8:00 A.M.
September	4	Friday	Summer School ends
September	26	Saturday	Freshman Program begins, Academic Convocation, 4:00 P.M.
September	28	Monday	Registration New Students
September	30	Wednesday	First Semester begins, 8:00 A.M.

2

PFAHLER HALL OF SCIENCE



A black and white photograph of a large, multi-story classical building, identified by the inscription on its facade as Pfahler Hall of Science. The building features a prominent portico with tall, rectangular columns. Above the columns, the name "PFAHLER HALL OF SCIENCE" is carved into the stone. The upper floors of the building are filled with numerous windows, some of which are open. A group of people, including students and possibly faculty, are gathered on the wide steps leading up to the entrance. The foreground shows a grassy lawn and some low-lying shrubs. The sky is clear and bright.

THE DIRECTORS

	<i>First Elected</i>	<i>Term Expires</i>
REV. TITUS A. ALSPACH, D.D., Lancaster	1925	1965
LILLIAN ISENBERG BAHNEY, B.A., Myerstown	1951	1966
THOMAS J. BEDDOW, B.A., LL.B., Washington, D. C.	1958	1963
CHARLES A. BEHNEY, M.D., Lansing, Michigan	1937	1967
REV. C. EUGENE BLUM, B.A., B.D., D.D., York	1950	1965
SAMUEL C. BOND, JR., B.A., Orefield	1952	1967
PHILIP L. CORSON, B.A., LL.D., Plymouth Meeting	1960	1965
EVELYN HENZEL CRAWFORD, M.A., LL.D., Glenside	1950	1965
WALTER R. DOUTHETT, M.A., Margate City, N. J.	1936	1966
JOSEPH L. EASTWICK, B.A., LL.D., Paoli	1962	1967
THOMAS P. GLASSMOYER, B.S., LL.B., Willow Grove	1956	1966
JESSE G. HEIGES, B.A., LL.B., New York, N. Y.	1959	1964
DONALD L. HELFFERICH, B.A., LL.B., LL.D., Collegeville	1927	1967
REV. MERRITT J. JEFFERS, M.S., B.D., D.D., Myerstown	1953	1963
RHEA DURYEA JOHNSON, B.A., Litt.D., Philadelphia	1928	1963
ROBERT L. JOHNSON, LL.D., Philadelphia	1947	1967
REV. W. SHERMAN KERSCHNER, D.D., Philadelphia	1940	1965
CHARLES LACHMAN, LL.D., Bryn Mawr	1949	1964
D. STERLING LIGHT, B.A., Norristown	1947	1967
REV. SHELDON E. MACKEY, D.D., LL.D., Glenside	1960	1966
N. E. MCCLURE, Ph.D., Litt.D., LL.D., L.H.D., Collegeville	1936	1966
ELLWOOD S. PAISLEY, B.S., Philadelphia	1959	1964
MURIEL BRANDT PANCOAST, M.A., Collegeville	1960	1965
WILLIAM D. REIMERT, B.A., LL.D., Allentown	1947	1967
CHESTER ROBBINS, M.A., LL.D., Princeton, N. J.	1943	1964
CHARLES V. ROBERTS, B.S., Drexel Hill	1956	1966
REV. WILLIAM R. SHAFFER, B.A., D.D., Philadelphia	1957	1967
GEORGE L. THOMAS, JR., B.A., D.C.S., Lilypons, Md.	1951	1966
ROBERT R. TITUS, B.S., LL.D., Villanova	1948	1963
CLARENCE A. WARDEN, JR., LL.D., Philadelphia	1957	1967
*RALPH F. WISMER, Esq., B.A., LL.D., Collegeville	1938	1963
HARLESTON R. WOOD, B.A., LL.D., Conshohocken	1956	1966

**Died September 10, 1962*

COMMITTEES OF THE BOARD OF DIRECTORS

Executive Committee: W. D. REIMERT, D. L. HELFFERICH, N. E. MCCLURE, D. S. LIGHT, C. LACHMAN, T. P. GLASSMOYER, P. L. CORSON.

Committee on Finance: E. S. PAISLEY, N. E. MCCLURE, D. L. HELFFERICH, R. R. TITUS, C. LACHMAN, W. D. REIMERT, C. A. WARDEN, JR., H. R. WOOD, J. L. EASTWICK, J. G. HEIGES.

Committee on Buildings and Grounds: C. LACHMAN, W. R. DOUTHETT, N. E. MCCLURE, D. S. LIGHT, W. D. REIMERT, D. L. HELFFERICH, C. V. ROBERTS.

Committee on Instruction: D. L. HELFFERICH, N. E. MCCLURE, R. L. JOHNSON, C. ROBBINS, E. S. PAISLEY, E. H. CRAWFORD.

Committee on Long-Term Planning: C. LACHMAN, W. R. DOUTHETT, N. E. MCCLURE, D. L. HELFFERICH, S. C. BOND, JR., C. E. BLUM, C. V. ROBERTS, L. I. BAHNEY, M. J. JEFFERS.

Committee on Budget: C. A. WARDEN, JR., W. R. DOUTHETT, N. E. MCCLURE, D. L. HELFFERICH, W. R. SHAFFER.

OFFICERS OF THE CORPORATION

President: WILLIAM D. REIMERT, Allentown

Vice-President: REV. WILLIAM R. SHAFFER, Philadelphia

Secretary: ELLWOOD S. PAISLEY, Philadelphia

Assistant Secretary: D. STERLING LIGHT, Norristown

Treasurer: ELLWOOD S. PAISLEY, Philadelphia

THE ADMINISTRATION

DONALD L. HELFFERICH, B.A., LL.B., LL.D., *President*

CHARLES LACHMAN, LL.D., *Vice President*

JAMES E. WAGNER, B.A., B.D., D.D., LL.D., L.H.D., *Vice President*

WILLIAM S. PETTIT, M.S., *Dean*

GEOFFREY DOLMAN, M.A., *Director of Admissions*

H. LLOYD JONES, JR., M.A., *Assistant Director of Admissions*

ALLAN L. RICE, Ph.D., *Assistant to the Director of Admissions and Adviser
to Foreign Students*

WILLIAM J. PHILLIPS, Ph.D., *Director of the Evening School*

REV. ALFRED L. CREAGER, B.S., B.D., D.D., *College Chaplain*

RICHARD J. WHATLEY, M.S., *Dean of Men*

MISS RUTH H. ROTHENBERGER, M.A., *Dean of Women*

CALVIN D. YOST, JR., Ph.D., *Librarian*

ELLWOOD D. PAISLEY, B.S., *Treasurer*

JAMES R. RUE, *Manager, Treasurer's Office*

J. ALLEN MINNICH, M.A., *Director of Placement*

EVERETT M. BAILEY, M.A., *Director of Athletics*

CHARLES D. MATTERN, Ph.D., *Director of Student Employment*

JOHN R. GUSTAVSON, B.A., *Assistant Director of Publicity*

EDWARD H. PLATTE, M.D., *College Physician*

MISS HELEN M. MOLL, R.N., *Resident Nurse*

RUSSELL L. REMIG, Ch.E., *Superintendent of Buildings and Grounds*

WILLIAM S. FRIEDEBORN, B.A., *Manager of the Supply Store*

REV. RICHARD T. SCHELLHASE, B.A., B.D., S.T.M., *Alumni Secretary*

JOSEPH J. LYNCH, *Steward*

THE ADMINISTRATIVE STAFF

Resident

MR. H. LLOYD JONES, JR., M.A., *Fetterolf House*

Resident Heads

MRS. A. E. SCHELLHASE, *646 Main Street*

MRS. PAUL E. TOWERS, *Paisley Hall*

MRS. LAWRENCE H. PEARSON, B.S., *Beardwood Hall*

MRS. ROBERT R. MACMURRAY, B.A., *Duryea Hall*

MRS. WALTER W. PRIZER, *944 Main Street*

MRS. JAMES B. FLICK, *Hobson Hall*

MRS. ROBERT W. RANDALL, *942 Main Street*

MRS. BRAINARD W. BENNER, *Stauffer Hall*

MRS. HERBERT JONES, *Clamer Hall*

MRS. CLARENCE E. WALCK, *Shreiner Hall*

Library

MRS. EMANUEL S. MENDELSON, B.A., M.S. in L.S.

MRS. ROGER P. STAIGER, B.A.

PETRO MIRCHUK, M.S. in L.S., J.D.

Assistants

MR. FREDERICK WENTZ, *Treasurer's Office*

MR. HARRY W. GEHMAN, *Treasurer's Office*

MRS. GEORGE PETSOCK, *Treasurer's Office*

MRS. VERA SCHUSHNAR, R.N., *Assistant Resident Nurse*

MR. HOWARD W. SCHULTZE, *Assistant to the Superintendent of Buildings*

MR. JAMES M. PARKER, *Assistant to the Steward*

Secretaries

MRS. MARY S. STEELE, *President's Office*

MRS. CLYDE S. MILLER, *Vice President's Office*

MRS. ARTURO LOPEZ, *Office of Admissions*

MRS. C. F. DONAHUE, JR., *Office of Admissions*

MRS. EDGAR T. CHRISMER, *Placement Office*

MRS. JAMES THOMSON, *Placement Office*

MRS. MAURICE O. BONE, *Alumni Office*

MRS. HORACE E. GODSHALL, *Alumni Office*

MRS. H. ARNOLD SMITH, *Dean's Office*

MRS. PAUL L. DREIBELBIS, *Dean of Women's Office*

THE FACULTY, 1962-1963*

DONALD LAWRENCE HELFFERICH, A.B., LL.B., LL.D., *President*

B.A., Ursinus College; LL.B., Yale University School of Law; LL.D., Ursinus College, Temple University.

NORMAN EGBERT MCCLURE, Ph.D., Litt.D., LL.D., L.H.D., *President, Emeritus; Professor of English, Emeritus*

B.A., Ursinus College; M.A., Pennsylvania State University; Ph.D., University of Pennsylvania; Litt.D., Pennsylvania Military College, Drexel Institute of Technology; LL.D., Temple University; L.H.D., Franklin and Marshall College.

WILLIAM SCHUYLER PETTIT, M.S., *Dean; Professor of Chemistry*

B.S. in Chem., M.S., University of Pennsylvania.

JOHN WENTWORTH CLAWSON, M.A., Sc.D., *Dean, Emeritus, Professor of Mathematics, Emeritus*

B.A., M.A., University of New Brunswick; B.A., Cambridge University; Sc.D., Ursinus College.

ELIZABETH BRETT WHITE, Ph.D., *Professor of History, Emeritus*

B.A., Cornell University; M.A., University of Wisconsin; Ph.D., Clark University.

HARVEY ROSEN VANDERSLICE, M.A., Ped.D., *Professor of Education, Emeritus*

B.A., Ursinus College; M.A., University of Pennsylvania; Ped.D., Ursinus College.

JAMES LANE BOSWELL, Ph.D., *Professor of Economics, Emeritus*

B.A., Georgetown College; M.A., Ph.D., University of Pennsylvania.

GEORGE RUSSELL TYSON, Ph.D., *Professor of Psychology and Education, Emeritus*

B.S., M.A., Ph.D., University of Pennsylvania.

RUSSELL DAVIS STURGIS, Ph.D., *David Laucks Hain Professor of Chemistry*

B.A., University of Delaware; M.S., Ph.D., University of Pennsylvania.

*Listed in order of appointment to present rank; appointments of the same year are listed alphabetically.

- *MAURICE OBERLIN BONE, B.C.S., *Professor of Economics*
B.C.S., Northwestern University.
- FRANK LEROY MANNING, Ph.D., *Professor of Mathematics*
B.S., Cornell University; M.S., Rutgers University; Ph.D., Cornell University.
- DONALD GAY BAKER, Ph.D., *Professor of Greek*
B.A., Haverford College; M.A., Ph.D., Harvard University.
- GEORGE WELLINGTON HARTZELL, Ph.D., *Professor of German*
B.A., Lehigh University; M.A., Ph.D., University of Pennsylvania.
- CALVIN DANIEL YOST, JR., Ph.D., *Librarian; Professor of English*
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.
- MAURICE WHITMAN ARMSTRONG, S.T.M., Ph.D., *Professor of History*
B.A., M.A., Dalhousie University; B.D., Pine Hill Divinity Hall; S.T.M. Ph.D., Harvard University.
- PAUL RAYMOND WAGNER, Ph.D., *J. Harold Brownback Professor of Biology*
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.
- EVERETT MARTIN BAILEY, M.A., *Director of Athletics; Professor of Physical Education*
B.P.E., B.S., Springfield College; M.A., Columbia University.
- JOHN JACOB HEILEMANN, Ph.D., *Professor of Physics*
B.A., M.A., Ph.D., University of Pennsylvania.
- CHARLES DAVID MATTERN, Ph.D., *Professor of Philosophy*
B.S., Ursinus College; Ph.D., University of Pennsylvania.
- EUGENE HERBERT MILLER, Ph.D., *Professor of Political Science*
B.A., Ursinus College; M.A., Ph.D., Clark University.
- WILLIAM FRANKLIN PHILIP, Mus. Doc., *Professor of Music*
Mus. B., Mus. M., Mus. Doc., State Academy of Church and School Music, Berlin.
- FOSTER LEROY DENNIS, Ph.D., *Professor of Mathematics*
B.S., Ursinus College; M.A., Cornell University; Ph.D., University of Illinois.
- WILLIAM JOHN PHILLIPS, Ph.D., *Professor of English*
B.A., M.A., Ph.D., University of Pennsylvania.
- ELEANOR FROST SNELL, M.A., *Professor of Physical Education*
B.A., University of Nebraska; M.A., Columbia University.
- ALLAN LAKE RICE, Ph.D., *Assistant to the Director of Admissions; Professor of German*
B.A., M.A., Ph.D., University of Pennsylvania.

*Died September 8, 1962

HELEN THOMPSON GARRETT, Ph.D., *Professor of French*
B.A., Swarthmore College; *Diplome*, University of Lille; Ph.D., University of Pennsylvania.

GARFIELD SIEBER PANCOAST, Ph.D., *Professor of Political Science*
B.S., Ursinus College; M.A., Ph.D., University of Pennsylvania

MARK GUY MESSINGER, Ed.D., *Professor of Education*
B.A., Ursinus College; M.A., University of Pennsylvania; Ed.D., Temple University.

JAMES ALLEN MINNICH, M.A., *Director of Placement and Professor of Education*
B.S., M.A., University of Pennsylvania.

LEVIE VAN DAM, Ph.D., *Professor of Biology*
B.S., M.S., Ph.D., Groningen State University, The Netherlands.

ROLAND FREEMAN DOANE, D.U., *Visiting Professor of Romance Languages*
B.S., Harvard University; M.A., Middlebury College; Docteur, University of Paris.

RICHARD MUMMA FLETCHER, Ph.D., *Professor of Psychology*
B.A., Franklin and Marshall College; Ph.D., Pennsylvania State University.

HENRY KENNEDY SHEARER, Ph.D., *Professor of Economics*
B.A., M.A., Ph.D., University of Pennsylvania.

BERNARD OBLENIS BOGERT, M.A., *Visiting Professor of Geology*
B.S., Lafayette College; M.A., Columbia University.

ALFRED LEON CREAGER, B.S., B.D., D.D., *Chaplain; Associate Professor of the History of the Christian Church*
B.S., Ursinus College; B.D., The Theological Seminary, Lancaster; D.D., Ursinus College.

RAYMOND VICTOR GURZYNSKI, M.Ed., *Associate Professor of Physical Education*
B.S., Ursinus College; M.Ed., Temple University.

GEOFFREY DOLMAN, M.A., *Director of Admissions; Associate Professor of English*
B.A., M.A., University of Pennsylvania.

ROGER POWELL STAIGER, Ph.D., *Associate Professor of Chemistry*
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

GEORGE GILBERT STOREY, Ph.D., *Associate Professor of English*
B.A., Geneva College; M.A., Duke University; M.A., Ph.D., Harvard University.

- ELIZABETH READ FOSTER, Ph.D., *Associate Professor of History*
B.A., Vassar College; M.A., Columbia University; Ph.D., Yale University.
- EVAN SAMUEL SNYDER, Ph.D., *Associate Professor of Physics*
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.
- FREDERICK DONALD ZUCKER, Ph.D., *Associate Professor of Political Science*
B.A., Rutgers University; M.A., Ph.D., Pennsylvania State University.
- CAROLINE VISSCHER DOANE, D.U., *Associate Professor of Modern Languages*
M.A., University of Utrecht, The Netherlands; Docteur, University of Paris.
- ROBERT STEARNS HOWARD, Ph.D., *Associate Professor of Biology*
B.S., University of Chicago; M.S., University of Miami; Ph.D., Northwestern University.
- JOHN CHARLES VORRATH, JR., Ph.D., *Associate Professor of Romance Languages*
B.A., Ph.D., Yale University.
-

- JAMES DOUGLAS DAVIS, M.A., *Assistant Professor of History*
B.A., Ursinus College; M.A., University of Pennsylvania.
- BLANCHE BEATRICE SCHULTZ, M.S., *Assistant Professor of Mathematics*
B.S., Ursinus College; M.S., University of Michigan
- HOWARD LLOYD JONES, JR., M.A., *Assistant Director of Admissions; Assistant Professor of English*
B.A., University of Delaware; M.A., University of Pennsylvania.
- AMMON GEORGE KERSHNER, JR., Ph.D., *Assistant Professor of English*
B.S., M.S., M.A., Ph.D., University of Pennsylvania.
- WILLIAM THOMAS PARSONS, Ph.D., *Assistant Professor of History*
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.
- WALTER WOODROW MARSTELLER, B.S., *Assistant Professor of Physics*
B.S., Ursinus College.
- HARRY CLAY SYMONS, M.A., *Assistant Professor of Economics*
B.A., M.A., Pennsylvania State University.
- RICHARD TYSON SCHELLHASE, S.T.M., *Assistant Professor of Religion*
B.A., Ursinus College; B.D., The Theological Seminary, Lancaster; S.T.M., The Lutheran Theological Seminary in Philadelphia.
- *RAYMOND LOUIS RAFETTO, JR., B.S., M.A., *Assistant Professor of Economics*
B.S., Temple University; M.A., University of Pennsylvania.

*Absent on leave

DAVID WALTER BAKER, Th.B., M.D., *Assistant Professor of Religion*
B.A., Coe College; Th.B., Princeton Theological Seminary; M.D., University of Pennsylvania.

DONALD HOLLY FORTNUM, Ph.D., *Assistant Professor of Chemistry*
B.S., Carroll College; Ph.D., Brown University.

RICHARD JACOB WHATLEY, M.S., *Dean of Men; Assistant Professor of Physical Education*
B.S., University of Maine; M.S., Springfield College.

PHOEBE JANE HARRIS, M.S., *Assistant Professor of Health and Physical Education*
B.A., Syracuse University; M.S., Smith College.

JESSIE ASHWORTH MILLER, Ph.D., *Lecturer in Sociology*
B.A., University of Maine; M.A., Ph.D., Clark University.

MARIAN GERTRUDE SPANGLER, B.A., *Instructor in Music*
B.A., Ursinus College.

CHARLES DAVID HUDNUT, B.A., *Instructor in English*
B.A., Ursinus College.

ROBERT ROSS MACMURRAY, M.B.A., *Instructor in Economics*
B.A., Ursinus College; M.B.A., University of Pennsylvania.

JOHN RAYMOND GUSTAVSON, B.A., *Instructor in English*
B.A., Upsala College.

DWIGHT ROGER KIRKPATRICK, M.S., *Instructor in Psychology*
B.A., M.S., Rutgers University.

ENRIQUE ANTONIO GARCÍA, B.A., *Instructor in Spanish*
B.A., Wesleyan University.

EBERHARD HANS GEIGER, *Instructor in German*
Attended Munich and Tübingen Universities.

ELMER CRAMER HOFFMAN, M.S., *Instructor in Economics*
B.S., M.S., University of Pennsylvania.

JANE PERRETEN SHINEHOUSE, P.T., *Assistant in Biology*
B.S., Ursinus College; P.T., University of Pennsylvania.

VIRGINIA KEIM HUDNUT, B.S., *Assistant in Psychology*
B.S., Ursinus College.

JUDITH LEE BYRNES, B.A., *Assistant in History*
B.A., Ursinus College.

OFFICERS OF THE FACULTY

*Chairman, THE PRESIDENT**Secretary, PROFESSOR YOST*

ACADEMIC COUNCIL

THE PRESIDENT

PROFESSOR YOST

PROFESSOR MATTERN

THE DEAN

PROFESSOR HEILEMANN

ADVISERS

*Biology Department, Professor Wagner**Chemistry Department, Professor Sturgis**Classics Department, Professor Baker**Economics and Business Administration Department, Professor Shearer**Engineering, Professor Heilemann**English Department, Professor Yost**German Department, Professor Hartzell**Health and Physical Education, Professor Minnich**History Department, Professor Armstrong**Mathematics Department, Professor Manning**Physics Department, Professor Heilemann**Political Science Department, Professor Miller**Psychology Department, Professor Fletcher**Romance Languages Department, Professor Hartzell**Undesignated, Professor Hartzell**Foreign Students, Professor Rice**Freshman Class, Professor Fortnum**Sophomore Class, Professor Howard**Graduate Scholarships, Professor Yost*

COMMITTEES

*Admission and Standing: THE PRESIDENT, DEAN PETTIT, PROFESSOR YOST, PROFESSOR DOLMAN, PROFESSOR JONES.**Library: THE PRESIDENT, THE LIBRARIAN, PROFESSOR ARMSTRONG, PROFESSOR STURGIS, PROFESSOR E. H. MILLER, PROFESSOR SHEARER.**Scholarships: THE PRESIDENT, DEAN PETTIT, PROFESSOR MATTERN, PROFESSOR DOLMAN, PROFESSOR JONES.**Discipline: DEAN PETTIT, DEAN ROTHENBERGER, DEAN WHATLEY, PROFESSOR DOLMAN, PROFESSOR STURGIS, PROFESSOR FLETCHER, PROFESSOR PARSONS.**Student Activities: DEAN ROTHENBERGER, DEAN WHATLEY, THE CHAPLAIN, PROFESSOR PARSONS, PROFESSOR STAIGER, PROFESSOR PANCOAST.*

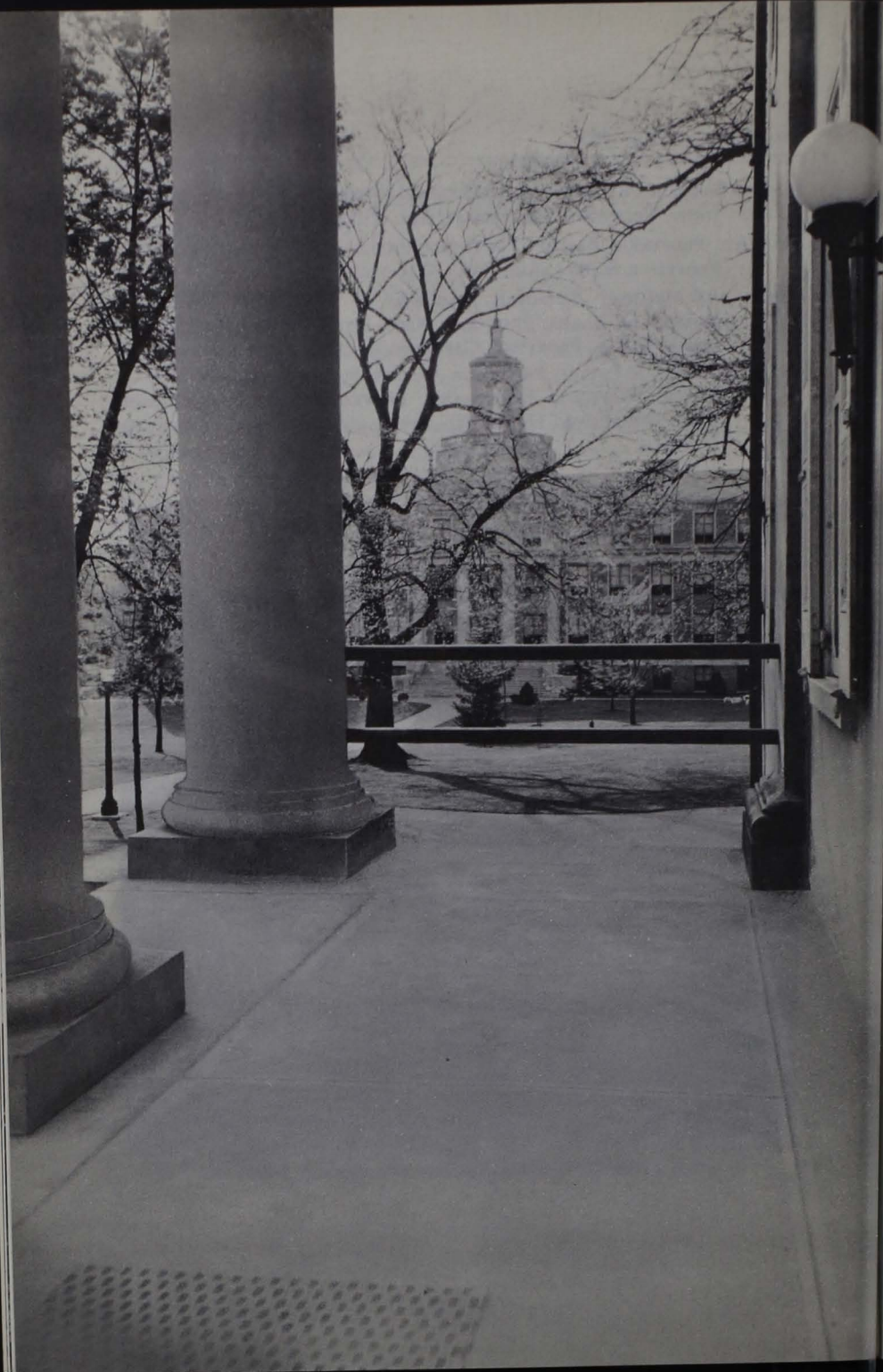
Student Publications: PROFESSOR MATTERN, PROFESSOR STOREY, PROFESSOR JONES, PROFESSOR SCHELLHASE, MR. HUDNUT.

Athletics: PROFESSOR BAILEY, PROFESSOR PANCOAST, PROFESSOR DOLMAN, PROFESSOR SCHELLHASE, DEAN WHATLEY.

Forum and Cultural Activities: PROFESSOR E. H. MILLER, PROFESSOR DONALD G. BAKER, PROFESSOR RICE, DEAN ROTHENBERGER, PROFESSOR PHILIP, PROFESSOR CAROLINE V. DOANE.

Curriculum: DEAN PETTIT, PROFESSOR ARMSTRONG, PROFESSOR DONALD G. BAKER, PROFESSOR HEILEMANN, PROFESSOR STURGIS, PROFESSOR YOST, PROFESSOR HARTZELL, PROFESSOR FLETCHER, PROFESSOR MINNICH.





HISTORICAL SKETCH

THE BEGINNING of educational work on what is now the campus of Ursinus College dates back to the construction of a primitive schoolhouse built of logs probably two centuries ago. The ancient building was razed in 1832 when Todd's School was built in the town of Perkiomen Bridge, now Collegeville. In 1848 Freeland Seminary was opened on a tract adjacent to Todd's School. The new school occupied the buildings now known as Freeland Hall and Stine Hall. During the following two decades many hundreds of young men were educated here.

In 1867 a group of men, members of the German Reformed Church, actuated by a desire to serve the interests of higher education and of evangelical Christian religion, laid plans to establish a college where, to quote their words, young men could be "liberally educated under the benign influence of Christianity." They chose as the name of the College that of the distinguished sixteenth-century scholar and reformer, Zacharius Ursinus of the University of Heidelberg. In 1869 the charter was granted by the Legislature of Pennsylvania. The buildings of Freeland Seminary were bought, and instruction was begun on September 6, 1870. Women were admitted to the College for the first time in 1881.

Coincident with the founding of the College was the establishment of a preparatory department as a successor to Freeland Seminary. The preparatory school was called Ursinus Academy and was operated as such until 1910, when it was discontinued.

Although Ursinus College admits students of all faiths, the College has been since its founding a church-related college, related to the German Reformed Church, later known as the Reformed Church in the United States, from 1934 to 1957 known as the Evangelical and Reformed Church, and since 1957 known as the United Church of Christ.

COLLEGE PRINCIPLES

URSINUS COLLEGE is a Christian, coeducational, liberal arts college which seeks to help the student to understand and to emulate excellence in scholarship and in conduct. Although in recent decades the College has extended its work to include the preparation of men and women for a variety of professions, the College continues to emphasize the fact that however varied and specialized the changing needs of the day, the fundamental needs of man remain constant. Each student, whatever his field of specialization, is required to study those subjects which are the core of our cultural heritage.

Ursinus recognizes its duty to preserve the cultural and spiritual tradition which this generation has inherited and to transmit a sense of that duty to succeeding generations.

The College seeks to help the students to develop those qualities which will fit them for the extraordinary responsibilities of educated men and women. The purposes of the College are achieved through its curriculum, through the many extra-curricular activities, and through the pattern of campus life.

The whole educational program serves to cultivate a particular set of qualities in the students:

- (1) An active intellectual curiosity and a desire to learn
- (2) A knowledge of the techniques of sound scholarship
- (3) An ability to think logically and critically
- (4) A mature understanding of one's self, of others, and of society
- (5) An insight into our natural environment, and a knowledge of the laws governing it
- (6) An appreciation of our cultural inheritance
- (7) A sense of responsibility
- (8) Attitudes consonant with the Christian ideal of morality and service

CULTURAL ENVIRONMENT

STUDENTS AT URSINUS have all the advantages of living in the country, and at the same time they are close enough to New York and Philadelphia to have access to such additional opportunities for culture as the symphony orchestra, grand opera, legitimate theatres, museums, lectures, and exhibits.

Ursinus is located in the heart of a region which is rich in historical tradition. In Colonial days this region was the center of the cultural and political development of America.

ACCREDITATION

URSINUS IS A MEMBER of the Association of American Colleges, and is on the approved list of the Middle States Association of Colleges and Secondary Schools, the American Association of University Women, and the American Chemical Society.

COLLEGE ACTIVITIES

ATHLETICS

URSINUS RECOGNIZES the physical and moral benefit derived from athletic activity and accordingly offers a well-balanced sports program open to all. Intercollegiate competition is encouraged in football, basketball (varsity and junior varsity), soccer, wrestling, baseball, track and tennis. In addition to this intercollegiate program intramural games are played. Intramural athletics for men include league competition in touch football, basketball, and softball, and an elimination tournament in tennis.

For women students, the College supports intercollegiate competition in hockey (varsity and junior varsity), basketball (varsity and junior varsity), softball, tennis, swimming, lacrosse and badminton. The intramural program provides voluntary recreation in hockey, basketball, tennis and softball.

The gymnasiums, playing fields, and equipment available for the pursuit of these various activities are described under Buildings and Equipment. (See pp. 27 to 30.)



ORGANIZATIONS

A LARGE NUMBER of organizations provide numerous and varied facilities of extra-curricular activity. All such organizations are approved by the Faculty and are supervised by the Committee on Student Activities or the Dean of Men and Dean of Women. In addition various members of the Faculty serve these groups as advisers. Student life on campus is regulated and controlled by the Men's Student Council and the Women's Student Government Association under the direction of the Dean of Men and the Dean of Women. Members of the student governing organizations are elected by the student body.

Among the most active organizations is the Young Men's and Young Women's Christian Association. Numerous religious and social activities are planned and sponsored by this group in collaboration with other campus groups. Allied religious and service groups are the Chi Alpha Society for those students planning to enter the ministry or other religious work, the Canterbury Club, and the Newman Club.

Other organizations stimulate the interest of students in particular areas of study or in future occupations: the Brownback-Anders Pre-Medical Society, the Beardwood Chemical Society, the English Club, the French Club, the Pre-Legal Society, the Student National and Pennsyl-





vania State Education Associations, and the Business Administration Club. Interest in athletics and campus spirit is fostered by the Women's Athletic Association, the Varsity Club, and the Spirit Committee. A chapter of the Honorary Social Studies Society, Pi Gamma Mu, has been established.

A large and varied program of dramatics is sponsored and carried out by the Curtain Club, which presents two major productions a year in addition to various group productions. There is at Ursinus a chapter of Alphi Psi Omega, a national honorary dramatic fraternity.

The Debating Club each year holds intercollegiate and intramural debates on topics of national interest. Members may qualify for election to Tau Kappa Alpha, the national honorary debating fraternity.

Music plays a large part in the life at Ursinus. Choral music is represented by the Chapel Choir; the Meistersingers, who offer concerts on and off campus, including a one-week tour in the spring; the Messiah Oratorio Chorus whose presentation of Handel's *Messiah* during the Christmas season is one of the outstanding musical events of the year. Instrumental music is offered by the Concert and Marching Bands. There is a chapter of Pi Nu Epsilon, the national honorary musical fraternity.

There are eleven local social organizations on the Ursinus campus. The fraternities are Sigma Rho Lambda, Zeta Chi, Alpha Phi Epsilon, Delta Mu Sigma, Beta Sigma Lambda, Delta Pi Sigma, and Alpha Phi Omega, the national service fraternity. The sororities are Omega Chi, Alpha Sigma Nu, Kappa Delta Kappa, Phi Alpha Psi, and Tau Sigma Gamma.

PUBLICATIONS

THE URSINUS BULLETIN, of which the Catalogue is a number, is the official publication of the College. It is issued five times a year.

THE ALUMNI JOURNAL, the official publication of the Alumni Association, appears three times a year.

THE URSINUS WEEKLY is the Ursinus newspaper. It is managed by a Board of Control consisting of student and faculty representatives and is edited and written entirely by the students. The Editor-in-Chief, the associate editors, and the business manager are elected by the board on the basis of merit and the staff is selected by the editors on the same basis. The paper is of interest to students and alumni as a record of life at Ursinus.

THE LANTERN serves as an outlet for those interested in creative writing and art. It is written and edited by an all-student staff under the direction of a member of the Faculty Committee on Student Publications. It is published three times a year.

THE RUBY, the Ursinus yearbook, is published by the Senior Class each year. It is a volume presenting an intimate pictorial account of the year's activities, not only of the Class, but of the entire College.



BUILDINGS AND EQUIPMENT

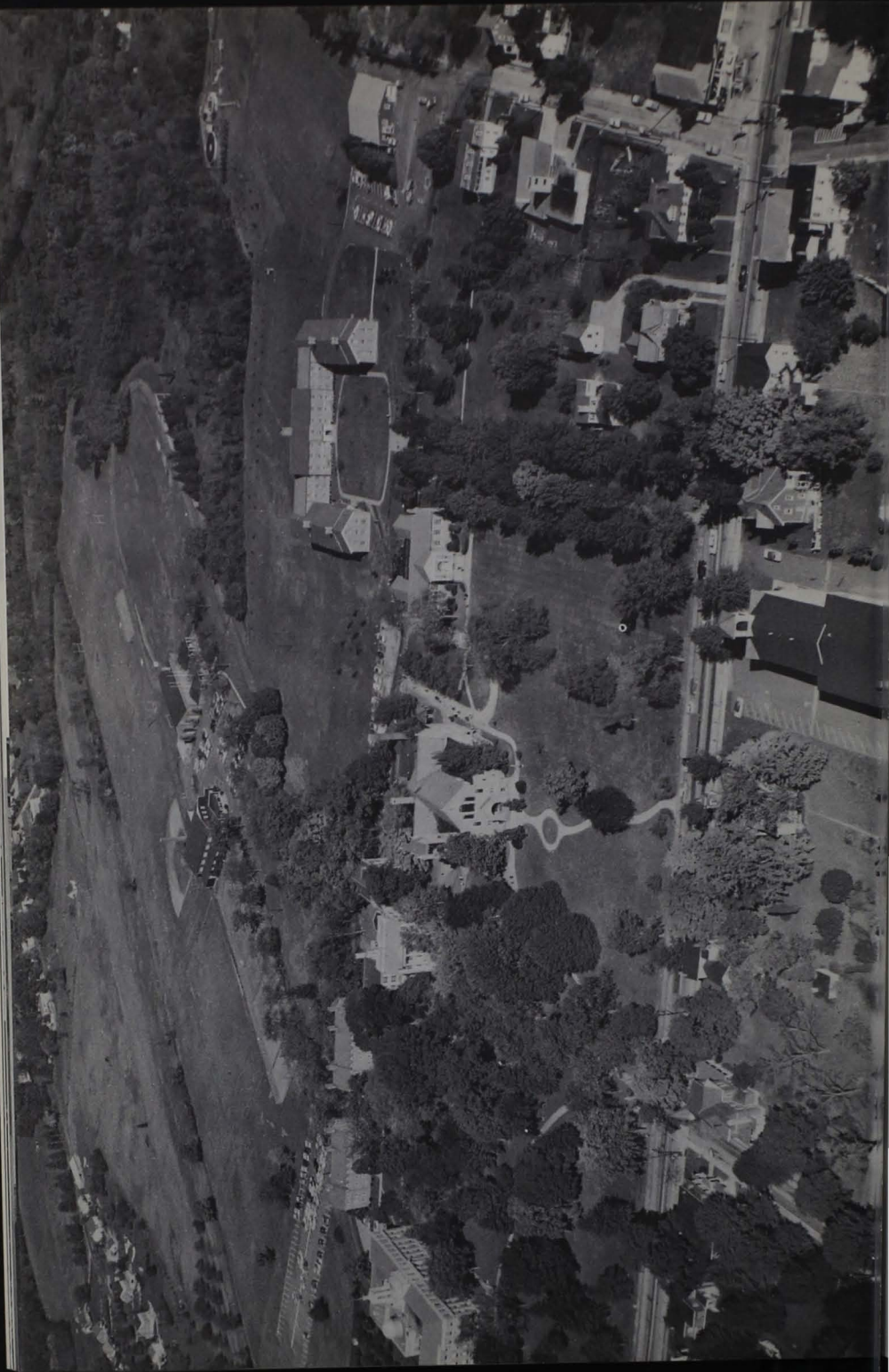
BOMBERGER MEMORIAL HALL, named for J. H. A. Bomberger, President of Ursinus College, 1870-1890, is a large and imposing structure in the Romanesque style of architecture, built of Pennsylvania blue marble. This building is for the use of the departments of language and literature, the social sciences, history, philosophy, religion, public speaking, and music. In it are the chapel, twelve classrooms, six conference rooms, a seminar room, two music studios, two studies for day students, a recreation room, the student lounge, and the offices of the Dean, the Dean of Men, the Director of Admissions, the Treasurer, the Director of Student Teaching and Placement, and the Director of Student Employment. The erection of Bomberger Hall was made possible by the benefactions of the late Robert Patterson.

PFAHLER HALL OF SCIENCE, erected in 1932, and named in honor of Dr. George E. Pfahler, is a stone and concrete building. The first floor and basement are devoted to work in psychology, education, mathematics, and physics, the second floor to biology, and the third floor to chemistry. The building contains the offices of the President, the Evening School, the Levi Jay Hammond Laboratory of Comparative Anatomy, the W. Wayne Babcock Laboratory of General Biology, the Anna Heinly Schellhamer Laboratory, the Schellhamer Laboratory, twelve other teaching and research laboratories, two radio-activity laboratories for research, nine professors' laboratories and offices, nine classrooms, a lecture hall with gallery and projection booth, and a library. The building is equipped with a deck for astronomical observation, on which is mounted the Elihu Thomson Memorial Telescope.

THE ALUMNI MEMORIAL LIBRARY contains reading rooms, offices of the library staff, seminar rooms, workroom, faculty and directors' room, stacks, vaults containing rare books and manuscripts, music room, and the Shaw-Bernard (Museum) Collection of curios and *objects d'art*.

The Library collection of 57,000 volumes, exclusive of government documents and pamphlets, has been selected to serve the needs of the liberal arts college. The Library receives over 300 periodicals and newspapers. The location of Ursinus College in the Philadelphia area makes available for special studies the considerable bibliographical holding of neighboring libraries through personal consultation or inter-library loan.

THE THOMPSON-GAY GYMNASIUM, built in 1927, occupies a convenient position adjoining Patterson Field and John B. Price Field. It is built of native brownstone, structural steel, and concrete. It contains a playing floor, a gallery for spectators, locker rooms, shower rooms, coaches' offices,



and storage rooms. At one end of the main floor is a completely equipped theatrical stage. Portable seating constitutes a part of the equipment of the building. This building is a memorial to Robert W. Thompson, '12, and George H. Gay, '13, noted Ursinus athletes, both of whom died in their senior year at the College.

THE COLLEGE GYMNASIUM, erected in 1947, is located near the Thompson-Gay Gymnasium and Price Field. It contains a large basketball court, two single handball courts, seating for 800 spectators, two dressing and shower rooms for players, a dressing room for officials, and storage rooms.

SUPERHOUSE, a residence on Main Street opposite the campus, was bequeathed to the College by the late Henry W. Super, D.D., LL.D., Vice-President and Professor of Mathematics, 1870-1891, and President, 1892-1893.

SPRANKLE HALL, on the east campus fronting Fifth Avenue, is the infirmary.

PATTERSON FIELD, named for Robert Patterson, first benefactor of the College, contains the varsity football field, space for competition in field events, and a quarter mile track with a 220-yard straightaway. The steel grandstand provides seating for 1440 spectators.

PRICE FIELD, named for Dr. John Price, '05, one of the great athletes in Ursinus history, contains the soccer field, the baseball diamond, several softball fields, and football practice ground.

THE TENNIS COURTS are at the rear of Curtis Dormitory.

THE EFFIE BRANT EVANS HOCKEY FIELD is located on the east campus near Stauffer Hall.

THE EGER GATEWAY, erected by the generosity of George P. Eger, of Reading, Pennsylvania, stands at the entrance of the walk leading from Main Street to Freeland Hall.

POST OFFICE AND SUPPLY STORE. A Post Office is maintained on the campus for the convenience of students. Adjacent to the Post Office is the Supply Store, in which are sold text books, college jewelry, stationery, confections, and students' supplies.

DORMITORIES FOR MEN

Freeland Hall, erected in 1848, is the original building of Freeland Seminary. *Derr Hall* and *Stine Hall* are additions to *Freeland Hall*. The

buildings are of stone, four stories in height with a fifth story of dormer rooms. On the two lower floors are the four dining rooms, the kitchen, storage and refrigeration rooms, and the office of the steward. The upper floors are for the residence of men students. The rooms are designed for one or two occupants, a number being arranged *en suite*.

The Brodbeck and Curtis Dormitories for Men are buildings in English Colonial style. Each building has four floors. They bear the names of esteemed benefactors of the College, Andrew R. Brodbeck and Cyrus H. K. Curtis.

Maples, 512 Main Street; 513 Main Street; *Fetterolf House*, 554 Main Street; 724 Main Street; and 801 Main Street are all residence halls for men.

Fircroft, 930 Main Street, a residence for men students, was presented to the College by Miss Sara E. Ermold as a memorial to her mother, Ella N. Ermold.

Trinity Cottage familiarly known as *South Hall*, a residence for men, is located on Sixth Avenue.

DORMITORIES FOR WOMEN

Paisley Hall, *Stauffer Hall* and *Beardwood Hall*, are three dormitories for women. The buildings house 244 women and are located on the east campus behind the Alumni Memorial Library.

Hobson House is located at Sixth Avenue and Main Street. It is used as a residence hall for women.

Shreiner Hall, fronting on Main Street and facing the College campus, is a residence hall for women. This is a three-story brick building arranged for the accommodation of thirty-three students and a faculty family.

Duryea Hall, 612 Main Street, next to Shreiner Hall, is a residence hall for fifteen women and a faculty family.

Clamer Hall, Main Street, the gift of Dr. Guillian H. Clamer, is a residence hall for women.

646 Main Street, 942 Main Street, and 944 Main Street are residence halls for women.



ADMISSION

THE FIRST step in seeking admission to Ursinus College is to file an application. A form for this purpose may be obtained from the Office of Admissions. After the completed form has been returned to the College, accompanied by the ten-dollar application fee, the Director of Admissions will request the applicant's school principal or headmaster to send an official transcript of the school record. At the same time, inquiry is made concerning the character of the candidate and his ability to do college work.

All applicants must arrange for a personal interview on campus, unless, of course, the distance makes such a visit impracticable.

Applications for financial aid should be filed at the time the candidate applies for admission.

It is the responsibility of the candidate to make arrangements to take the Scholastic Aptitude Test according to the instructions below.

TESTS

ALL CANDIDATES for admission to the Freshman Class are required to take at least the Scholastic Aptitude Test of the College Entrance Examination Board. Full information concerning the dates of administering these tests can be obtained by writing directly to the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey. If, in the opinion of the Committee on Admissions, it seems helpful to have additional information, the applicant may be asked to take additional achievement tests.

PREPARATION

A CANDIDATE for admission to the Freshman Class must be a graduate of an approved secondary school.

If the applicant is a graduate of a four-year high school he should offer for admission at least fifteen units which are to be distributed as follows:

BASIC ACADEMIC CREDITS (9 Units)

English, *Four years, Earning Three Units*

Elementary Algebra, *One Unit*

Plane Geometry, *One Unit*

Science, *One Unit*

Social Studies, *One Unit*

Foreign Language, *Two Units in One Language*

ADDITIONAL ACADEMIC CREDITS (*At least 2½ Units*)

Advanced Mathematics

Solid Geometry

Plane Trigonometry

Science

Social Studies

Foreign Language

ELECTIVES (*Maximum 3½ Units*)*Not more than one unit will be granted for any single elective.*

Bookkeeping

Drawing (Mechanical, Prepared Course)

Geology

Stenography

Junior Business Training

Music and Art (History or Appreciation)

Commercial Law

Commercial Geography

If the candidate is a graduate of a three-year high school, he should offer at least twelve units, which should include the basic credits above. Not more than one unit may be presented from the group designated as electives.

Applicants whose preparation does not coincide precisely with the foregoing outline may in exceptional cases be admitted to the College if, in the judgment of the Committee on Admissions, they are qualified to do college work satisfactorily.

ENGINEERING PROGRAM

ARRANGEMENTS have been made with the Engineering Schools of the University of Pennsylvania and similar institutions to which a student may transfer after completing three years of prescribed work toward the B.A. degree at Ursinus College.

Ursinus College will grant the B.A. degree after the student has satisfied the requirements for that degree. The engineering school will grant the engineering degree on satisfactory completion of the fourth and fifth years. For the outline of the program see page 109.

The candidate for the Engineering program must present 3½ years of entrance credit in Mathematics.

His background in foreign language must be such that he will be capable of entering the *second* year of language in college. If he is not so prepared he must make up the deficiency in foreign language in summer school.

SPECIAL STUDENTS

A LIMITED NUMBER of applicants who are not candidates for degrees may be admitted as special students, provided that they have satisfactory preparation for the college courses which they wish to pursue. Special students who reside at the College must register for at least twelve hours of work in each semester. They are subject to the same regulations as other students.

TRANSFER STUDENTS

TO ENTER the Sophomore or Junior Class at Ursinus College, an applicant must support his application by requesting each institution he has attended subsequent to graduation from secondary school to send to the Director of Admissions a transcript of his record at the institution of higher learning and a letter from the Dean of Men or Women indicating that the applicant is entitled to honorable dismissal insofar as character and personality are concerned. It will be helpful if the candidate will send a catalogue of the college he has been attending, marked to indicate the course he has taken. No advanced standing will be granted to a transfer student unless his previous college record is free of failures and conditions. There will be no credit for grades below C, nor will credit be granted for less than a full year's work completed elsewhere.

Not more than sixty hours of work taken elsewhere will be credited to students transferring to Ursinus College.

PART-TIME STUDENTS

NON-RESIDENT STUDENTS who are candidates for a degree and who wish to pursue fewer than twelve hours of work may be classified as part-time students upon the written approval of the Dean of the College.

NOTIFICATION OF ADMISSION

WHEN A CANDIDATE for admission is notified of his acceptance by the College, he must make an advance payment of one hundred dollars in accordance with the provisions of the letter of acceptance. This payment is credited on his bill for the first term. If he fails to complete his matriculation, the payment is forfeited.

THE SUMMER SCHOOL

THE CURRICULUM of the Summer School is announced in the Spring and information concerning course offerings is available after April 15. Admission to Summer School is limited to students who are candidates for, or who have received degrees from, Ursinus College or other accredited institutions of higher learning. An applicant from another institution must submit written permission from the Dean of that institution authorizing him to enroll for a specific course or courses. Inquiries should be addressed to the Director of Admissions.

THE EVENING SCHOOL

THE EVENING SCHOOL is organized to make college work available to men and women employed in business, in industry, in teaching, and to others who may be interested. The program emphasizes courses in business administration and in fields closely allied to business administration, such as economics, political science, history, English composition, public speaking and certain foreign languages.

For information, catalogue, and application forms, address The Director, Evening School, Ursinus College, Collegeville, Pa.

TUITION EXCHANGE PROGRAM

URSINUS COLLEGE is a member of the Tuition Exchange. Requests of children of faculty members of other member institutions for tuition remission will be considered upon application. Because of the necessity for maintaining a balance of imports and exports, it may not always be possible to honor such requests. Applications for tuition remission should be made through the liaison officer of the institution with which the applicant's parent is associated. Those who receive aid through the Tuition Exchange Program are not eligible for additional grants.

PROGRAMS IN SPECIAL FIELDS

URSINUS is a college of liberal arts and sciences. This means that Ursinus emphasizes a broad, general education regardless of the career for which a student plans to prepare. At the same time, it is possible at Ursinus to prepare for specific careers in the fields listed below. A placement service maintained by the College helps the student to find a position in the field of his choice.

Business. Graduates in Business Administration are employed by many types of industrial concerns, banking institutions, public utilities, transportation companies, department stores, chain stores, etc. By electing languages, it is possible for students majoring in business to prepare for the growing opportunities in world trade.

Chemical Research: Industrial Chemistry. The College provides opportunities for students desiring to major in Chemistry with a view to devoting their lives to some type of chemical research. Graduates find employment in the chemical industry doing pioneer work in the field of chemical research and development.

Dentistry. The Council on Dental Education of the American Dental Association fixes as the minimum basis for admission to an approved dental school the successful completion of two full years of academic work in an accredited college of liberal arts and science. This college work must include courses in English, biology, physics, inorganic and organic chemistry.

Educational Administration. Basic courses in Education are provided which are prerequisite to the professional courses in Educational Administration offered in graduate schools of education of leading universities.

Engineering. Students who wish to study Chemical, Civil, Electrical, Mechanical or Metallurgical Engineering may avail themselves of a program which is being offered at Ursinus College in cooperation with engineering schools. A student at Ursinus College may transfer to an engineering school after completing three years of prescribed work toward the B.A. degree at Ursinus.

Ursinus College will grant the B.A. degree after the student has satisfied the requirements for that degree. The engineering school will grant the engineering degree upon completion of the fifth year.

Foreign Service. The American foreign service presents attractive opportunities to a limited number of young people who are willing to prepare themselves adequately for service abroad. The history and social science courses, together with offerings available in the modern languages, provide preparation for the examinations required of applicants for positions in foreign service. Upon graduation students are urged to pursue additional work at a recognized graduate school.

Graduate Study. One purpose of the curriculum of the modern liberal arts college is to prepare students for advanced study in various fields of knowledge. Preliminary study is done by the student at the undergraduate level in his chosen major field. Those intending to enter graduate schools should have a thorough grounding in their chosen field. As a reading knowledge of French and German is essential for most higher degrees, this knowledge should be acquired in the undergraduate school.

Health and Physical Education. It is possible to specialize in health and physical education and at the same time obtain a general cultural education. Health and physical education graduates meet the requirements for certification to teach in this field in Pennsylvania and other states.

Journalism. A student interested in journalism should enroll in the departments of history, political science, or English and elect widely in other fields. Following graduation from college a year at a professional school of journalism is recommended.

Laboratory Technology. It is possible to arrange for either a two-year or a four-year course of preparatory work, although the latter is strongly recommended as the preferred training.

Law. As a general rule leading law schools require a baccalaureate degree as one of the conditions for acceptance of candidates. A broad, cultural education is considered the best preparation for legal study.

Medicine. Concentration in biology or chemistry is recommended in order to prepare students who are interested in the various aspects of medicine. Preparation for schools of osteopathy and of veterinary medicine, as well as for the regular medical schools, is provided.

Music. Although a considerable number of courses in music are available at Ursinus, no major in music is offered. Those who wish to follow music as a career should plan to attend graduate school after completing their work at Ursinus.



Nursing. Students who plan to enter the profession of nursing should register for courses in biology, chemistry, and liberal arts in order to qualify for consideration by schools of nursing.

Physical Research. A program of concentration in physics and mathematics is offered to students interested in physics as a career.

Psychology. Undergraduate work in psychology is designed for those who seek admission to graduate schools or who wish to enter personnel work in industry. Undergraduate study in psychology is of assistance in the fields of teaching, guidance, law, clinical psychology, personnel and social work, nursing, and preparation for medicine.

Teaching. Work in education, including practice teaching, as required by many of the state departments of education, is offered to those who plan a career in education. Teacher preparation is limited to the secondary school field. Students follow curricula under the guidance of advisers.

Theology and Religious Education. Most leading theological schools have as a requirement for consideration for admission a degree in liberal arts. Students who are preparing for the ministry should plan a broad course of study which will include history, languages, literature, religion, and philosophy.

THE COLLEGE YEAR

THE COLLEGE year at present consists of two terms of sixteen weeks each and a Summer Term of twelve weeks. Students are admitted to the College at the beginning of any term. Students who wish to do so may accelerate their college courses by attending the Summer Term in addition to the Fall and Spring Terms. The Summer Term is available to all students who wish to take advantage of it.

EXPENSES

RESIDENT STUDENTS *Charges Per Year*

<i>Comprehensive Fee</i>	\$1800 to \$1850
<i>Activities Fee</i>	\$ 20

NON-RESIDENT STUDENTS *Charges Per Year*

<i>Tuition</i>	\$1000
<i>Activities Fee</i>	\$ 20

PAYMENTS ARE TO BE MADE AS FOLLOWS:

New Students

<i>Advance Payment — as requested</i>	\$ 100
<i>Breakage Deposit — As indicated on bill</i>	\$ 10

Old Students

<i>Advance Payment — July 15</i>	\$ 100
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All Students

*September — One-half annual Comprehensive Fee, less
credit for Advance Payment.
One-half Activities Fee.*

*January — One-half annual Comprehensive Fee.
One-half Activities Fee.*

Charges quoted are made on an annual basis. Billings are presented semi-annually and are due for payment in September and January, no later than the date indicated on the billing. A \$10 fee is charged for late payment.

When the student is a recipient of a scholarship award, credit will be applied in the amount of one-half the value of the annual award to each semester bill.

For those who prefer to pay tuition in monthly installments, the College offers special arrangements made with the Girard Trust Corn Exchange Bank of Philadelphia, and/or the Insured Tuition Payment Plan of Boston.

FEES

APPLICATION FEE. A fee of \$10 is paid by the candidate at the time he files his application. *This fee is not refundable and is not applied toward the student's bill.*

SPECIAL AND PART-TIME STUDENTS are charged at the rate of \$37.50 *per semester hour.*

Checks should be made payable to URSINUS COLLEGE.

ADVANCE PAYMENT. (a) Upon his acceptance by the College an applicant must make an advance payment of \$100. This payment is credited on his bill for the first term. If he fails to complete his matriculation, this payment is forfeited. (b) All regularly enrolled students must make an advance payment of \$100 at such time as may be designated by the College. This payment is forfeited if the student fails to complete his registration.

COMPREHENSIVE FEE covers classroom instruction, tuition, use of laboratories, libraries, gymnasiums, and the infirmary; ordinary medical attention; care by the resident nurse; furnished room and board, exclusive of Christmas and Winter and Spring recesses. The variation in fee depends upon the location of the room and choice of major.

The College reserves the right to make reasonable adjustments in the comprehensive fee at the beginning of any term to cover possible unforeseen costs.

ACTIVITIES FEE covers subscription to the *Ursinus Weekly*, intercollegiate debating, the Christian Associations, the Ursinus College Forum, admission without charge to all athletic contests at the College and to College dances.

STUDENTS' MEDICAL INSURANCE PLAN. A twelve-month coverage for accident, sickness, and health is available at nominal cost. Further information is available in the Office of the Treasurer.

PRE-SESSION CAMP FOR WOMEN IN PHYSICAL EDUCATION. An instructional fee of \$65 is charged for attendance at the Pre-Session Physical Education Camp. The charge for room and board is \$55 for the period.

ROOM DRAWING. A previously enrolled student must pay \$10 in order to qualify for drawing a room. Credit for this amount will be applied on the bill for the following term.

PRIVATE MUSICAL INSTRUCTION. A fee of \$100 is charged for any students wishing private individual instruction in voice or on the piano, organ or other orchestra or band instrument. This charge is for one half-hour lesson each week during the regular college year and is payable as shown on billing.

SCIENCE FEE. A fee of \$25 per semester is charged to each student majoring in Biology, Chemistry, Pre-engineering, or Physics.

BREAKAGE DEPOSIT. A deposit of \$10 is required of each new student to defray any expense incurred by injury to property and is included on the bill for the first term. The unexpended balance is returned upon graduation or withdrawal from College.

Checks should be made payable to URSINUS COLLEGE.

STUDENT TEACHING. An additional fee of \$50 is required of each student engaged in practice teaching. This is payable upon presentation of the bill.

GRADUATION FEE. A graduation fee of \$10 is charged each student on the last bill of his senior year.

TRANSCRIPT FEE. A charge of \$1 is made for each transcript of a student's record after the first. Requests for transcripts should be made to the Office of the Dean.

REGULATIONS

BILLS for the Comprehensive Fee are issued approximately thirty days before the beginning of each term. A student's bill must be settled no later than the date indicated on the statement.

No student who is indebted to the College or to any of its departments or agencies will be permitted to register at the beginning of any term, and all items due the College from a candidate for graduation must be paid before the candidate may be presented for a degree.

A student who is absent from College because of sickness, and retains his place in class, pays the Comprehensive Fee in full during his absence, except when the absence is continuous over a period exceeding four weeks, in which case resident students are allowed a rebate of \$5 for each full week on account of table board.

No refund is allowed because of a student's dismissal or withdrawal from the College during a term, except when the student enters the armed services.

A student who voluntarily withdraws from College must notify the Dean and settle all bills within thirty days or be liable to dishonorable dismissal.

The possession or use of alcoholic beverages or firearms on the campus or in Collegeville is forbidden.

Freshman and Sophomore students are prohibited from having an automobile in Collegeville and vicinity during the academic year. Juniors and Seniors holding scholarships, financial grants, and positions under the Bureau of Student Employment are similarly restricted.

If a woman student marries, she at once forfeits her membership in the College. She may, however, apply for readmission.

The College reserves the right to exclude at any time students whose conduct or academic standing renders them undesirable members of the college community, and in such cases the fees due or paid in advance to the College will not be refunded in whole or in part.

Checks should be made payable to URSINUS COLLEGE.



GENERAL INFORMATION

ROOMS AND MEALS

URSINUS COLLEGE is a community and pleasant community life is emphasized. Students who are not living in their own homes are required to room at the College and to take their meals in the College dining rooms.

Each resident student supplies his own towels, pillow, two pairs of sheets for a single bed, mattress protector, a pair of pillow cases (38" x 45"), a pair of blankets, and a bedspread. Linen rental service is available.

First-year students, except those whose presence is needed for service, are required to vacate their rooms immediately following the second-term examinations.

PUBLIC WORSHIP

ALL RESIDENT students and all day students whose homes are within a mile of the campus are required to attend religious services in the College chapel on certain designated days of each week. Students may not be absent from chapel services more than three times in a semester without valid excuse. Students are encouraged to attend services on Sunday in the church of their own choice.

ABSENCES

STUDENTS are expected to attend all meetings of the classes in which they are enrolled and to take all tests and examinations on the announced days.

A student's absences in any course must not exceed twice the number of meetings per week in that course. This regulation is designed to allow for cases of illness, the death of a relative, or duty away from the College as a representative of the institution, and, in the case of a day student, transportation difficulties.

If a student has exceeded the number of allowed absences he may be dropped from the course by the Dean after consultation with the instructor and the student's adviser. If a student is dropped for over-cutting, he will be assigned a grade of F in that course. If he is allowed to continue, he must make up the work missed and pay the required fees for permits and re-examinations.

Three latenesses are counted as the equivalent of one absence. Absences directly preceding and following a holiday are counted double.

A third-year or fourth-year student whose grades in the term immediately preceding include at least one A and no grade lower than B is placed on his own responsibility for attendance at classes.

GRADES OF SCHOLARSHIP

WHEN A COURSE has been completed, the standing of the student is expressed, according to his proficiency, by one of five grades: A, B, C, D, or F. Letter A denotes grades between 100% and 90%, B between 90% and 80%, C between 80% and 70%, D between 70% and 60%, and F denotes 45%. Any grade of less than 60% denotes a failure in the course. Students who have received passing grades are not permitted to take re-examinations for the purpose of raising their grades.

The mark I, which may be given only with the written permission of the Dean, is reserved for cases of incomplete work or of failure under extenuating circumstances. When the removal of the mark I requires an examination, a fee of ten dollars (\$10.00) will be charged. If the mark of I is not removed within one month after the beginning of the following regular term, the grade of F will be assigned for the course.

A student is required to have an average of 70% at the end of each term in College. A student who fails to do so will be restricted in his extra-curricular activities, declared ineligible, and reported to the Faculty.

A student whose average at the end of the first term or second term is below 65%, whose cumulative average is below 65% at the end of the first year, or whose cumulative average is below 70% at the end of the third term or thereafter will be dropped from the College unless, as a result of mitigating circumstances, the Faculty votes that he be permitted to continue. The action of the Faculty in all such cases is final.

Employment under the Bureau of Student Employment, or participation in intercollegiate athletics or other intercollegiate activities is not allowed to a student whose average for the preceding term is below 70%. A student under discipline may be barred by the Committee on Discipline from all extra-curricular activities.

A permanent record is kept of each student's work, a copy of which is sent to his parent or guardian at the close of each term. The standing of first-year students is reported also at mid-term. Through correspondence and conferences, the cooperation of parents is sought in the endeavor to obtain the best possible results in the work of students.

DEGREES

URSINUS COLLEGE confers two degrees in course: Bachelor of Arts and Bachelor of Science. For specific requirements of the curricula leading to each of these degrees, see pages 104 to 109. Degrees are conferred only at convocations and *candidates must present themselves in person.*

The College may confer the honorary degrees of Doctor of Divinity, Doctor of Pedagogy, Doctor of Science, Doctor of Letters, and Doctor of Laws on persons whose distinguished ability and service have been deemed worthy of such recognition by the Faculty and the Board of Directors.

HONORS

COMMENCEMENT

Two Commencement honors are assigned: one, the Valedictory, to the person attaining the highest standing in the graduating class; the other, the Salutatory, to the person attaining the next highest standing.

GRADUATION WITH DISTINCTION

Members of the graduating class who have shown great proficiency in their entire course may be graduated with distinction if, in the opinion of the Faculty, their attainments warrant such honors. These distinctions, *Summa Cum Laude*, *Magna Cum Laude*, and *Cum Laude*, are given only for unusual excellence in all the subjects pursued by the candidate.

DEPARTMENT HONORS

Students may be graduated with special honors in departments of study in which they have shown exceptional proficiency, and in which they have done extra work.

1. A candidate for Department Honors must have the endorsement of the professor in charge of the department in which he expects to try for such honors, and must enroll as a candidate at the Dean's office at least eight months prior to the anticipated date of graduation.

2. A student must maintain a grade not lower than C in any course pursued after the first year and must maintain an average of B while he is pursuing his work as a candidate for Department Honors.

3. A candidate must complete an amount of work equivalent to three semester hours in the department in which he intends to try for honors in addition to the full number of semester hours prescribed for graduation. At least twelve semester hours must be in the subject in which he is registered for Department Honors. He must submit to the Faculty a thesis on some subject within the field represented by his extra work. The thesis must be deposited in the Office of the Dean by May 1 preceding the convocation when the honors are to be awarded.

MEDICAL SERVICE

THE COMPREHENSIVE FEE paid by resident students entitles them to ordinary medical attention. The College Physician may be consulted in his

office on the campus during office hours. He will regularly visit patients in the infirmaries. During the regular College sessions the resident nurses are on duty twenty-four hours a day. They care for the sick under the direction of the College Physician.

The College will not pay bills that students contract with hospitals or with physicians or nurses not on the staff of the College. The College reserves the right to enforce quarantine and to engage the services of special attendants if necessary, but will not be responsible for the compensation of extra physicians, nurses, or attendants, which compensation must be provided by the student or his parent or guardian.

ACCIDENT AND HEALTH INSURANCE

A STUDENT accident and health insurance program is available. Details are available in the Office of the Treasurer. See under *Expenses*.

PRE-SESSION CAMP FOR WOMEN IN PHYSICAL EDUCATION

A CAMP is available on an optional basis for sophomore, junior, and senior women who are majoring in Physical Education. The camp is operated during a period of two weeks immediately preceding the opening of the fall term. Class instruction by regular members of the staff normally includes work in archery, canoeing, hockey, horseback riding, officiating, swimming, life-saving, and tennis. The time spent in camp activities will be deducted from the hours required in Physical Education activities. Courses 303 to 308, during the college year. See page 40.

SCHOLARSHIPS & AID TO STUDENTS

FULL-TUITION SCHOLARSHIPS

THERE ARE eight Open Scholarships, each having a potential value of \$4000, available to the entering Freshman Class in September. The Open Scholarships are competitive, provide full tuition to the recipients, and are tenable for four years, provided that the holder's conduct and scholastic work remain satisfactory. All scholarships are subject to yearly review.

Candidates for Open Scholarships must take the Scholastic Aptitude Test and three sub-tests of the Scholastic Achievement Tests (one of which must be in English) in the December, January, February or March series of the College Entrance Examination Board.

Application for Open Scholarships must be filed by March 1.

OTHER FINANCIAL GRANTS

MANY ENDOWED financial grants, each having a potential value of from \$200 to \$2800 for four years, are awarded on the basis of financial need. Each grant is tenable for four years provided that the holder's conduct and scholastic work remain satisfactory. All financial grants are subject to yearly review.

Scholarship application forms may be obtained from the Director of Admissions. Applicants for both types of aid are required to fill out the College Scholarship Service Statement, indicating financial status.

Applications for financial grants must be filed by March 1.

BUREAU OF STUDENT EMPLOYMENT

THE BUREAU, conducted under the management of officers of the College, provides opportunities for students to earn a part of their expenses by working as waiters, laboratory assistants, library assistants, typists, and clerks in the Supply Store. These positions are standardized so as not to overburden the student or to interfere with his studies. Positions accepted under the Bureau of Student Employment must, however, always take precedence over any other extra-curricular activities. A standard position, such as a waitership in the dining room, pays three hundred and seventy dollars per year. Approximately one hundred and fifty positions, representing varying amounts of compensation and types of work, are now open to students.

Students who agree to perform a specific task, such as serving in the dining rooms, have their accounts credited in advance of their work. Those who work by the hour, however, have their accounts credited at the end of their term of work. Inasmuch as bills for the Spring Term are prepared and mailed before the end of the Fall Term, students who work by the hour must all have their bills adjusted at the opening of the Spring Term.

Letters of application, as well as those requesting information, should be addressed to the Director of Student Employment.

PLACEMENT BUREAU

URSINUS COLLEGE conducts a placement bureau to assist students and graduates in finding positions for which they qualify. Its function is to serve as a point of contact for seniors and alumni with educational institutions, business, and industry. Detailed personal and scholastic records of seniors and alumni are compiled and are available along with a photograph, for all prospective employers.

ALUMNI PLACEMENT—The Placement Bureau acts as a clearing house for the placement of alumni seeking employment or new positions. Alumni are encouraged to place their names on the list of available candidates. A fee of \$1.00 is charged for alumni registrations.

Persons seeking placement in the educational field or in business or industry should address communications to the Director of Placement, Ursinus College, Collegeville, Pa.

LOAN FUNDS

PERMANENT FUNDS have been established to provide loans to third-year and fourth-year students. Applications for loans should be addressed to the Director of Admissions.

PERMANENT SCHOLARSHIP FUNDS

THE COLLEGE possesses a number of permanent scholarship funds. The income of each fund is assigned annually to a student designated by the College. The list of these scholarships is as follows:

The John Alexander Scholarship, founded by John Alexander, D.D., of St. Louis, Missouri, in appreciation of benefits enjoyed when a student in the College, \$1,000.00

The Alumni Memorial Scholarships, founded by the gifts of alumni and friends, in memory of the Ursinus men who gave their lives in the service of their country, 1941-45, 102,485.76

The Appel Memorial Scholarship, founded under the will of the Rev. Richard S. Appel, D.D., as a memorial to his son, Robert S. Appel, A.B., '01, 2,000.00

The Aspden Memorial Scholarship, founded by Newton J. Aspden, of Trinity Reformed Church, Philadelphia, in memory of his beloved wife, Levinah Erb Aspden, 5,000.00

The Bahner Scholarship, founded in 1919 by the members of Trinity Reformed Church, Waynesboro, Pa., in honor of the Rev. Franklin F. Bahner, D.D., '73, and his wife, Mary Ella Bahner, on their completion of forty-two years of devoted service in the pastorate of the Waynesboro charge, 1,000.00

The F. Kline Baker Scholarship, founded under the will of F. Kline Baker, of Philadelphia, in memory of his wife, Helen Baker, 2,000.00

The Pearl and John E. Beddow Scholarship, founded by Thomas J. Beddow, '36, and Virginia Fenton Beddow, '37, the income to be used to help defray part of the tuition costs of a graduate of Frackville, Pennsylvania, High School who is a regularly enrolled student at Ursinus, 2,096.39

The Beck Scholarship, founded by the Rev. Samuel W. Beck, of Littletown, Pa., in appreciation of the scholarships awarded to his four daughters, the income to provide scholarships for girls who plan to teach, 1,000.00

The Augustus Behney Scholarship, founded by Charles A. Behney, M.D., '12, in memory of his father, 3,700.00

The Valeria Behney Scholarship, founded by Charles A. Behney, M.D., '12, in memory of his mother, 3,700.00

The Bethany Tabernacle Scholarship, founded by the congregation of Bethany Tabernacle Reformed Church, Philadelphia, the Rev. H. H. Hartman, '94, pastor, 2,000.00

<i>The J. William Bireley Scholarship</i> , founded by J. William Bireley of Frederick City, Md.,	1,000.00
<i>The Anna M. Bomberger Scholarship</i> , founded by Anna M. Bomberger, with gifts amounting to \$600 and completed by Mrs. H. S. Bomberger, both of Lancaster, Pa.,	1,000.00
<i>The Wayne Brown Memorial Scholarship Fund</i> , established by friends of Wayne A. Brown, '17, the income to be awarded to deserving students who have demonstrated qualities of leadership in the classroom and on the athletic field,	5,025.00
<i>The John Brownback Memorial Scholarship</i> , founded by Melinda M. Acker and Mary M. Brownback, of Uwchland, Chester County, Pa., in memory of their father,	1,000.00
<i>The Mary M. Brownback Scholarship</i> , founded under the will of Mary M. Brownback, of Uwchland, Chester County, Pa.,	1,000.00
<i>The Bushong Scholarship</i> , established in memory of Morton E. Bushong by his wife, Daisy M. Bushong, the income to be used for grants to deserving students from Upper Darby, Pa.,	2,000.00
<i>The Carson Scholarship</i> , founded under the will of Captain John Carson, of Newburg, Cumberland County, Pa.,	1,000.00
<i>The Christ Church, Hellertown, Scholarship</i> , founded by the congregation of Christ Evangelical and Reformed Church, Hellertown, Pa., the Rev. Adam E. Schellhase, '18, pastor,	1,000.00
<i>The Guillian H. Clamer Scholarship</i> , founded to honor Guillian H. Clamer, D.Sc., by his associate, Edward Allan Ginkinger, the income to be awarded to a deserving student in one of the sciences,	10,000.00
<i>The Class of 1911 Scholarship</i> , founded by the Class of 1911,	1,807.50
<i>The John H. Converse Scholarship</i> , founded by John H. Converse, of Philadelphia,	1,000.00
<i>The Cub and Key Scholarship</i> , founded by <i>The Cub and Key Society</i> ,	3,943.90
<i>The Deitz Scholarship</i> , founded by Gilbert A. Deitz, '18, and Purd E. Deitz, '18, in memory of Martha E. Deitz and Mattie A. Deitz,	1,000.00
<i>The Barnabas Devitt Scholarship</i>	1,000.00
<i>The Elsie Devitt Scholarship</i>	1,000.00
<i>The Emma Mayberry Devitt Scholarship</i>	1,000.00

The Devitt Scholarships were founded under the will of Emma Devitt of Philadelphia, Pa.,

The Doll Family Scholarship, founded by George Doll, Adaline Doll, and Josephine Doll of Philadelphia, 2,037.92

The Miriam Zaugg Dreibelbis Scholarship, established in memory of Miriam Zaugg Dreibelbis, '24, by her husband, F. Ralph Dreibelbis, the income to be used for grants to deserving women students, 2,000.00

The Charles and Elizabeth Drumm Scholarship, founded by Charles Drumm, of Philadelphia, Pa., 4,000.00

The Eastwick Scholarships, founded by Joseph Lees Eastwick, LL.D., 25,500.00

The Erb Scholarship, founded by the Rev. William H. Erb, '93, and Andora Erb, 2,000.00

The Fetterolf Memorial Scholarship, founded under the will of Abraham D. Fetterolf, of Collegeville, Pa., 2,000.00

The John B. and Horace A. Fetters Scholarship, founded under the will of Mary M. Brownback, of Uwchland, Chester County, Pa., 1,000.00

The John B. Fetters Memorial Scholarship, founded by Rebecca B. Fetters, of Uwchland, Chester County, Pa., in memory of her son, who died after a week's attendance at College in September, 1885, 1,000.00

The Fogel Memorial Scholarship, founded under the will of Minnie G. Fogel in memory of her parents, the Rev. Dr. Edwin J. and Jennie E. Fogel, 4,000.00

The Edwin M. and Minnie G. Fogel Scholarship, founded under the will of Minnie G. Fogel, the income to be used for a scholarship for a young man of moral and intellectual worth in order to prepare himself for the Christian ministry in the Evangelical and Reformed Church, 2,000.00

The Alice L. and William D. Fox Scholarship, founded under the will of Alice L. Fox, of Lebanon, Pa., 1,000.00

The Alice R. Fox Memorial Scholarship for Girls, founded under the will of David R. Rohrbach, '07, 11,854.16

The Henry Francis Scholarship, founded by Henry Francis, of Spring City, Pa., 1,000.00

The Elizabeth Frey Scholarship, founded by gift of Elizabeth Frey, of Stewartstown, Pa., 11,500.00

<i>The Alfred Gemmell Scholarship</i> , founded in memory of Alfred Gemmell, '39 (1916-1957),	1,537.41
<i>The General Scholarship Fund</i> , founded by the gifts of alumni and friends of Ursinus College,	13,340.93
<i>The Anna High Godshalk Scholarship</i> , founded in memory of Anna High Godshalk, '20 (by her husband, Ralph L. Godshalk),	4,000.00
<i>The Grace Church Scholarship</i> , founded by Milton Warner and Wilson H. Lear, of Grace Reformed Church, Philadelphia, Pa.,	1,000.00
<i>The Haines Scholarship</i> , founded by Charles Grove Haines, '03, and Bertha Moser Haines, '02,	1,749.83
<i>The Heidelberg Scholarship</i> , founded by a member of Heidelberg Reformed Church, York, Pa.,	1,000.00
<i>The Nora Shuler Helfferich Scholarship</i> , founded to honor Nora Shuler Helfferich, '93, by her daughter-in-law, Anna Knauer Helfferich, '20, the income to be awarded to needy and deserving women students,	10,214.72
<i>The William Ursinus Helfferich Scholarship</i> , founded by Christ Reformed Church, Bath, Pa., on the twenty-fifth anniversary of the ministry of their pastor, and increased by later gifts,	1,500.00
<i>The William A. Helfferich Scholarship</i> , founded by the Rev. W. A. Helfferich, D.D., of Fogelsville, Pa.,	1,000.00
<i>The George W. and Francis R. Hench Scholarship</i> , founded by the Rev. S. M. Hench, D.D., of Trappe, Pa., in memory of his parents,	1,500.00
<i>The Mattie B. Hench Scholarship</i> , founded by Mrs. Mattie B. Hench of Trappe, Pa.,	1,200.00
<i>The Joseph H. Hendricks Memorial Scholarship</i> , founded in memory of the Rev. Joseph H. Hendricks, D.D., for forty-three years (1862-1905) pastor of Trinity Church, Collegeville, and for eighteen years (1887-1905) a Director of Ursinus College, by his friend, Jacob P. Buckwalter, of Macon, Georgia,	5,000.00
<i>The Hilltown Scholarship</i> , founded by the Hilltown and Dublin charge of the Reformed Church in the United States, Bucks County, Pa.,	1,030.14
<i>The Freeland G. Hobson Scholarship</i> , founded under the will of Freeland G. Hobson, LL.D., '76, of Collegeville,	1,000.00
<i>The Joseph and Enoch Isenberg Scholarship</i> , founded by Dorothy Isenberg, of Hollidaysburg, Pa.,	1,000.00

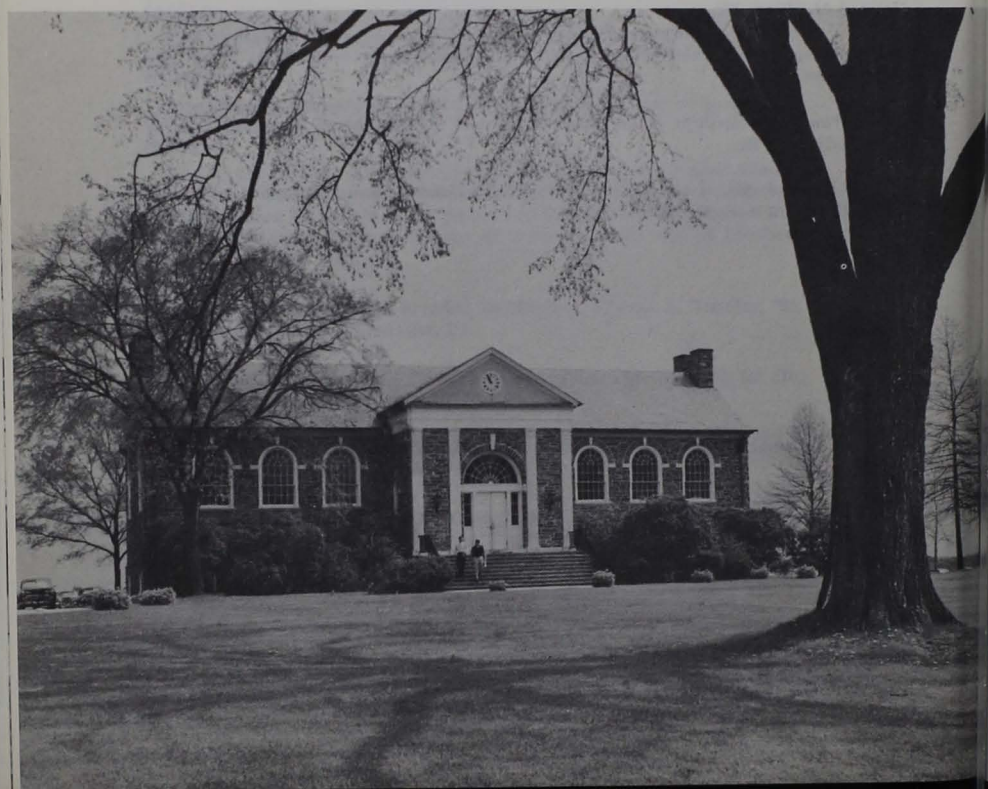
<i>The Mary E. and James M. S. Isenberg Scholarship</i> , founded by Paul H. Isenberg, '21, Lillian Isenberg Bahney, '23, and Helen Isenberg Ballantyne, '24, in memory of their parents,	1,755.00
<i>The Jefferson Medical College Scholarship</i> , founded by Lewis Cass Scheffey, M.D., Sc.D., to aid students who plan to enter Jefferson Medical College,	4,700.00
<i>The Saint John's, Orwigsburg, Scholarship</i> , founded by the congregation of Saint John's Reformed Church, Orwigsburg, Pa., the Rev. D. R. Krebs, D.D., '02, pastor,	1,000.00
<i>The Johnson Scholarship</i> , founded in memory of J. Howard Johnson, '94, and his wife, Myra, by Mrs. Ella J. Johnson,	500.00
<i>The Keeley Scholarship</i> , founded by Joseph Keeley, of Spring City, Pa.,	1,000.00
<i>The Kelker Scholarship</i> , founded by Rudolph F. Kelker, of Harrisburg, Pa.,	1,000.00
<i>The J. Edward Klingaman Scholarship</i> , founded by the Rev. J. Edward Klingaman of Winchester, Va.,	20,837.02
<i>The Francis Kready Scholarship</i> , founded by Francis Kready, of Lancaster, Pa.,	2,000.00
<i>The Rev. Dallas R. Krebs, D.D., and Mrs. Bessie M. Hoffman Krebs Scholarship</i> , for the aid of a ministerial student, founded under the will of Bessie M. Hoffman Krebs,	798.10
<i>The Franklin W. Kremer Memorial Scholarship</i> , founded by the Rev. F. W. Kremer, D.D., with gifts amounting to \$500, and completed by the Sunday School of the First Reformed Church, of Lebanon, Pa., in grateful memory of his thirty-eight years' pastorate,	1,000.00
<i>The LeRoy Boyer Laubach Scholarship</i> , founded in memory of LeRoy Boyer Laubach by his mother, Mrs. M. B. Laubach, of Philadelphia, Pa.,	2,000.00
<i>The Leinbach Scholarship</i> , founded by Irwin S. Leinbach, '29, M.D., Sc.D.,	3,650.00
<i>The Sarah J. Leiphart Scholarship</i> , founded under the will of Sarah J. Leiphart, of York, Pa.,	9,842.81
<i>The Longacre Scholarship</i> , founded by Walter Force Longacre, Class of 1914, in memory of his parents, Emanuel Longacre, member of the Board of Directors of Ursinus College from 1869 to 1894, and his wife, Caroline Everhart Force, whose eight children attended Ursinus Academy, and three of whose children were graduated from Ursinus College,	5,700.00

<i>The MacDade, Abbott & Co. Scholarship</i> , established by William Henry MacDade and Temple W. Abbott, the income to be awarded to deserving students,	1,000.00
<i>The Francis Magee Scholarship</i> , founded by the late Francis Magee, of Philadelphia,	1,000.00
<i>The Aaron E. March Scholarship</i> , founded by Aaron E. March, of York, Pa.,	2,000.00
<i>The Markley Scholarship</i> , founded by Dr. Mary E. Markley, '02, in memory of her father, the Rev. A. B. Markley, D.D., '76,	4,500.00
<i>The Saint Mark's Scholarship</i> , founded in 1918 by the members of Saint Mark's Reformed Church, Lebanon, Pa., in honor of their pastor, the Rev. I. Calvin Fisher, D.D., '89, and his wife, Eva S. Fisher, and in celebration of their twenty-fifth anniversary in the pastorate of Saint Mark's Church,	1,000.00
<i>The James W. Meminger Scholarship</i> , founded by the congregation of Saint Paul's Reformed Church, Lancaster, Pa., in honor of the Rev. James W. Meminger, D.D., '84, former pastor,	1,000.00
<i>The Meyran Scholarship</i> , founded by Louis A. Meyran and his wife, Marie H. Meyran, of Grace Reformed Church, Pittsburgh, Pa.,	2,000.00
<i>The Miller Scholarship</i> , founded by Elmer E. and Erma Miller Steinbrunn, of Orwigsburg, Pa., in memory of Mrs. Steinbrunn's parents, Alfred M. and Pauline Miller,	1,000.00
<i>The William David Miller Scholarship</i> , founded by Mr. and Mrs. William David Miller, Jr. of Philadelphia, Pa.,	1,000.00
<i>The D. Charles Murtha Scholarships</i> , founded under the will of D. Charles Murtha, '86,	19,949.32
<i>The Annie Neff Scholarship</i> , founded under the will of Annie Neff, of Alexandria, Huntingdon County, Pa.,	1,500.00
<i>The Martin B. Neff Scholarship</i> , founded by Annie Neff in memory of Martin B. Neff, of Alexandria, Pa., and in recognition of his life-long interest in Ursinus College,	1,800.00
<i>The Carolina E. Loudon Niblo Scholarship</i> , founded under the will of James Martin Niblo, D.D.,	5,000.00
<i>The Noss Scholarship</i> , founded by Charles H. Noss, of York, Pa., in memory of his parents, William S. Noss and Emma S. Noss	15,000.00
<i>The Ralston Oberholtzer Scholarship</i> , founded under the will of Ralston G. Oberholtzer, '25, of New York City,	2,000.00

<i>The George Leslie Omwake Scholarships</i> , founded by several hundred alumni and other friends of the sixth president of Ursinus College,	100,250.00
<i>The Omwake Memorial Scholarship</i> , founded by W. T. Omwake, Esq., of Waynesboro, Pa., as a memorial to his parents, Henry and Eveline Beaver Omwake,	2,000.00
<i>The Paisley Scholarship</i> , founded in honor of Mrs. Carrie Strassburger Paisley, of Trinity Reformed Church, Philadelphia,	2,000.00
<i>The Harry E. Paisley Scholarship</i> , founded by Harry E. Paisley, LL.D., of Trinity Reformed Church, Philadelphia,	6,730.00
<i>The John and Margaret Paisley Scholarship</i> , founded by John and Margaret Paisley, of Garden City, Long Island, N. Y.,	6,000.00
<i>The Saint Paul's, Lancaster, Scholarship</i> , founded by the congregation of Saint Paul's Reformed Church, Lancaster, Pa., the Rev. T. A. Alspach, D.D., '07, pastor,	2,000.00
<i>The Pascucci Scholarship</i> , founded by the Class of 1952 in memory of Eugene Anthony Pascucci, '52 (1928-1954),	3,443.05
<i>The Pennsylvania Female College Memorial Scholarship</i> , founded by the Glenwood Association, a body of former students of the Pennsylvania Female College, in recognition of the earlier work done at Collegeville for the higher education of women,	3,000.00
<i>The Neri F. and Serena J. Peters Scholarship</i> , founded in memory of the Rev. and Mrs. Neri F. Peters by their children,	2,000.00
<i>The Raynor-Fetterolf Scholarships</i> , founded by Alves L. Raynor and his wife, Helen Miller Raynor, '11, in memory of their son, Eugene Richard Raynor (1926-1940),	77,481.82
<i>The Ritter Scholarship</i> , established by R. A. Ritter, LL.D., of Wyncote, Pa.,	14,165.00
<i>The Jesse W. Roberts Memorial Scholarship</i> , founded by Charles V. Roberts, '32, in memory of his father,	11,132.25
<i>The Silas H. Rush Scholarship</i> , founded in memory of her parents, Mr. and Mrs. Silas H. Rush, by Mrs. E. R. Hoffman, of Philadelphia,	1,000.00
<i>The Scheer Memorial Scholarship</i> , founded under the will of Thekla Ida Scheer, in memory of her father, the Rev. George A. Scheer, D.D., '76, the income to be used to aid students who plan to enter the Christian ministry,	5,000.00
<i>The Adam E. and Dorothy T. Schellhase Scholarship</i> , founded by Dorothy T. Schellhase,	1,674.80

<i>The Jacob S. and Lucinda Schwartz Scholarship</i> , founded by the bequest of Jacob S. Schwartz, of Hanover, Pa.,	1,000.00
<i>The Schwenksville Community Scholarship</i> , founded by the Citizens of Schwenksville, Pa.,	1,927.00
<i>The Jocelyn Xander Sheeder Scholarship</i> , established by the late S. Elizabeth Xander, of Philadelphia, Pa.,	1,000.00
<i>The J. B. Shontz Memorial Scholarship</i> , founded by the Congregation and Sunday School of Saint John's Reformed Church, Chambersburg, Pa., in memory of their former pastor, the late Rev. J. B. Shontz,	1,000.00
<i>The A. Lizzie Shreiner Scholarship</i> , founded under the will of A. Lizzie Shreiner, of Lancaster, Pa.,	1,350.00
<i>The Siebert Scholarship</i> , founded under the will of P. W. Siebert, of Pittsburgh, Pa.,	1,004.00
<i>The Sigma Rho Lambda Fraternity Scholarship</i> ,	3,558.61
<i>The George S. Sorber Scholarship</i> , founded by the Rev. George S. Sorber, D.D., of York, Pa.,	2,000.00
<i>The Nathan Spangler Scholarship</i> , founded by Nathan Spangler, of York, Pa.,	1,000.00
<i>The Sprankle Scholarship</i> , founded under the will of Samuel Sprankle, of Altoona, Pa.,	2,000.00
<i>The Stauffer Memorial Scholarship</i> , founded in memory of Robert Ursinus and John Donald Stauffer, deceased children of the Rev. J. J. Stauffer, by gifts amounting to \$500 from the pastor and members of the Lykens Valley charge, and completed by a bequest of \$500 under the will of Elizabeth Ritzman, of Gratz, Pa.,	1,000.00
<i>The Stauffer Scholarship</i> , founded by the Rev. George A. Stauffer, '94, and Laura M. Stauffer, Lancaster, Pa.,	7,217.11
<i>The Harold D. and Edith C. Steinbright Scholarship</i> , founded by Dr. and Mrs. Harold D. Steinbright, of Norristown, Pa.,	19,491.52
<i>The Clementina R. Stewart Scholarship</i> , founded under the will of Clementina R. Stewart, of Myerstown, Pa.,	1,000.00
<i>The Stoudt Scholarship Fund</i> , founded in memory of the Rev. John K. Stoudt, D.D., by his wife, Mrs. John K. Stoudt, and by his children, Mark R. Stoudt, '36, and Mary Helen Burkey, '39,	1,000.00

<i>The G. Leicester Thomas Scholarship</i> , founded by G. Leicester Thomas, of Adamstown, Md.,	9,800.00
<i>The Trinity Bible School Scholarship</i> , founded by the Bible School of Trinity Reformed Church, Philadelphia,	2,880.30
<i>The Trumbower Memorial Scholarship</i> , founded by Mr. H. C. Trumbower, of Trinity Reformed Church, Philadelphia, in memory of his parents, Dr. Lewis T. and Annie B. Troxel Trumbower,	5,000.00
<i>The Vance Scholarship</i> , founded by the Class of 1949 in memory of John Robert Vance, '49 (1925-1954),	3,536.25
<i>The Abraham Wagner Scholarship</i> , founded under the will of Abraham Wagner, of the Robinson Church, Berks County, Pa.,	1,000.00
<i>The George A. Walker Scholarship</i> , founded under the will of George A. Walker, of Philadelphia, Pa.,	10,000.00
<i>The Wehr Scholarships</i> , founded in honor of the Rev. Calvin P. Wehr, D.D., '95, and Agnes E. Wehr, by their daughter, Florence A. Wehr,	13,000.00
<i>The John Wiest Scholarship</i> , founded in memory of John Wiest, a member of the original Board of Directors of Ursinus College, by his son, Howard M. Wiest, '92,	5,100.00
<i>The George Wolff Scholarship</i> , founded by the Rev. George Wolff, D.D., of Myerstown, Pa.,	1,000.00
<i>The Young Scholarships</i> , founded under the will of Mary Lantz Young, of Philadelphia, Pa.,	16,000.00
<i>The Dr. and Mrs. Isaac Zyner Memorial Scholarship</i> , founded under the will of Jennie H. H. Wieder Zyner,	30,230.34



THE EDUCATIONAL PROGRAM

THE DEPARTMENTAL SYSTEM is employed in the organization and administration of instruction. By this system, the courses of instruction are offered in thirteen departments: Biology, Chemistry, Classics, Economics and Business Administration, English, German, Health and Physical Education, History, Mathematics, Physics, Political Science, Psychology, Romance Languages. The adviser is the medium of communication between the Faculty and students of his department. The approval of the adviser is necessary before a student may register for or enter upon any course of study, or discontinue any work.

A student, at matriculation, chooses the subject of major concentration he desires to pursue, and with the advice and consent of the adviser selects his studies for the year and reports his selection to the Dean on a blank provided for the purpose. A student who is uncertain as to his future plans, and therefore undecided as to his major field, may choose to be registered in an "undesignated major" for the first year.

SUMMER READING PROGRAM

IN ORDER to stress the importance of good reading and to develop the student's appreciation of good writing, the Faculty has approved the Program in Summer Reading which is required of all students. It begins with the summer preceding the freshman year and continues through succeeding summers. The paper-bound volumes assigned for reading are mailed to the student. These books are discussed formally and informally during the early weeks of the first semester.

CHOICE OF STUDIES

THE WORK of every student is composed of three parts: (1) courses which are, in the judgment of the Faculty, essential to a liberal education and are required of all students before graduation; (2) courses required by the department in which the student is registered, and which comprise his major field of concentration; (3) elective courses chosen by the student as a means of further individualizing his course of study, and adapting it to his own intellectual tastes and future purposes.

REGISTRATION

ALL STUDENTS must register at the beginning of the Fall Term for the work of the Fall and Spring Terms. Changes in course of study may be made during the first week of a term with the written approval of the adviser. After the first week, courses may be added or dropped only by joint permission of the Dean, the adviser, and the instructors involved. A student who withdraws from a course without such permission will receive the grade of F. A fee of one dollar is charged for the registration of students on days other than those appointed in the College Calendar.

In registering, the student must present to his department adviser his complete list of studies, both prescribed and elective, for the *whole year*. Courses prescribed as degree or departmental requirements or to satisfy conditions must take precedence over and be scheduled before elective courses. When a student changes to another department, he must fulfill the requirements of that department in order to be graduated.

REQUIREMENTS FOR GRADUATION

THE REQUIREMENT for the degree of Bachelor of Arts or Bachelor of Science is the completion of one hundred and twenty semester hours which must include all the courses required by the Faculty of all students for graduation and the courses required by the department to which the student belongs. At least sixty semester hours of this work must be completed at Ursinus College, and this must include the work of the senior years.

A regular student may not take in any one term fewer than twelve semester hours of work. The normal maximum for a term is five courses or fifteen semester hours. Two semester hours above the normal maximum may be scheduled with the approval of the adviser, provided the student's average for the preceding term is eighty or higher. Three semester hours above the normal maximum may be scheduled for the preceding approval of the adviser, provided the student's average for the preceding term is eighty-five or higher (*Exception*: Engineering and Physical Education majors are permitted to schedule in each term three hours more than the normal maximum).

All fourth-year students shall enroll as full-time students. They must carry a minimum load of fourteen (14) semester hours in each of the last two semesters.

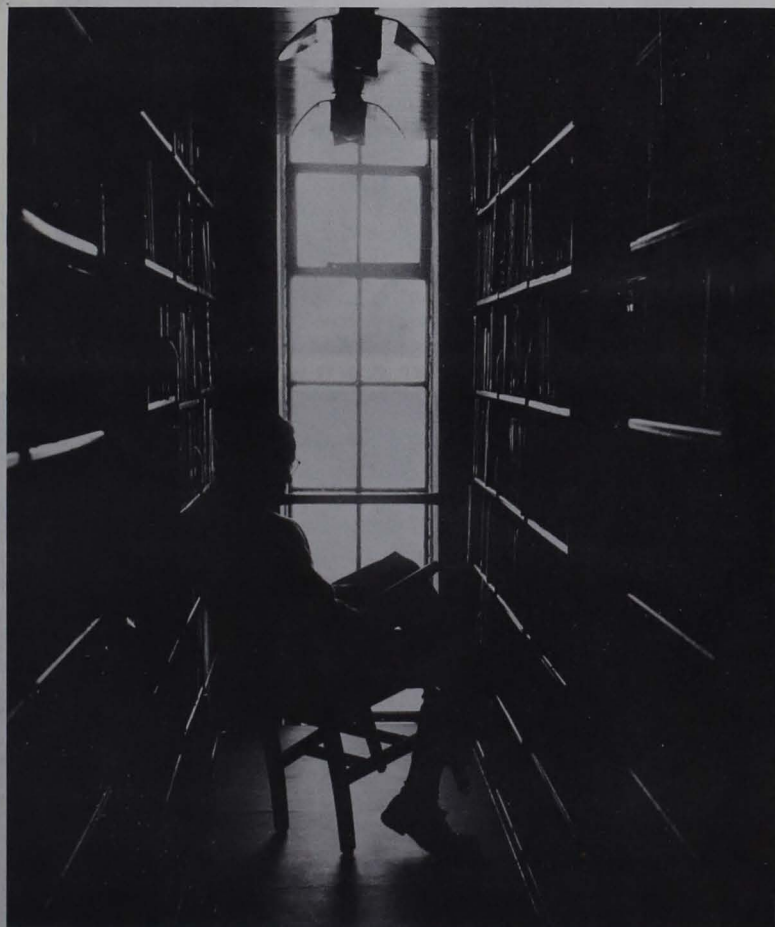
PRESCRIBED COURSES (REQUIRED OF ALL CANDIDATES FOR GRADUATION)

- English Composition 1, 2
- English Composition 3, 4
- English Literature 3, 4 or 17, 18 or 19, 20
- History 1, 2
- Foreign Languages 1, 2 and 3, 4 or equivalent
- Biology 3, 4 or Chemistry 1, 2; Geology 1, 2 or Physics 1, 2
(if prerequisites are satisfied)
- Economics 3, 4 or Political Science 1, 2
- Psychology 1

Philosophy (one semester)

Physical Education 101, 2 (No semester hour credit. Not required of students in the Physical Education Department).

All requirements for graduation must be satisfied before the end of the last day of examination week preceding commencement. *Each student must bear responsibility for fulfilling his requirements for graduation.*





COURSES OF INSTRUCTION

IN DESIGNATING COURSES of study, *odd* numerals are employed to indicate the courses offered during the Fall Term and *even* numerals the work of the Spring Term. Exceptions to this regulation are noted. Summer Term offerings are not announced in this catalogue, but so far as possible, courses will be offered to meet the needs of students who register for the Summer Term.

The credit value of each course, expressed in semester hours, is printed in *italics*. The hours per week are given in the definition of the course.

BIOLOGY

PROFESSOR WAGNER
PROFESSOR VAN DAM

ASSOCIATE PROFESSOR HOWARD
MRS. SHINEHOUSE

The program of this department aims, through the study of a number of aspects of biology, to foster the scientific attitude in its students, to encourage and maintain a critical and enthusiastic interest in the subject of biology for its own sake, and to provide a background of fundamental courses sufficient for its majors to qualify for teacher certification in the secondary schools and for pre-professional preparation in the several fields of the health services. The department prepares students for advanced work in the biological sciences.

Students majoring in Biology must take a minimum of 28 semester hours in Biology, including Biology 103, 104; 7, 8; 19; 21 or 22. The additional electives may be selected from Biology 6, 17, 18, 20, 21, 22, 23, 24, 25, 26. This department also requires its majors to take the following related courses: Physics 1, 2; Chemistry 101, 102; Mathematics 1, 2 or 1a, 2a.

Majors planning to pursue graduate studies in Biology are advised to elect Mathematics 5, 6 (Calculus), and/or Mathematics 13, 14 (Statistics), and/or Mathematics 20 (Probability), before completing their third and fourth years.

Teaching This program (major in Science, concentration in Biology) is designed for prospective secondary school teachers whose principal interest is Biology and who wish to be certified in Biological Science, Science, and General Science.

The following courses are prescribed by the Department of Biology: Biology 103, 104, 6, 17, 18, 19, 21, 22, Chemistry 1, 2 or Physics 1, 2, Mathematics 1, 2, History 16.

The curriculum of students beyond the first year must be arranged in consultation with the head of the Department of Education.

For sequence of courses, see Major in Science, Concentration in Biology, p. 107.

Description of Courses

3. General Biology (Zoology)

DR. HOWARD

Introduction to principles of structure, function, and development of living things as revealed in a study of selected animal types. Two hours of lecture; one two-hour laboratory period per week. *Three semester hours.*

4. *General Biology (Botany)*

DR. HOWARD

Introduction to principles of structure, function, and development of living things as revealed in a study of selected plant material. Two hours of lecture; one two-hour laboratory period per week. *Three semester hours.*

Courses 3 and 4 of General Biology are not open to Biology majors but may be taken by any student to satisfy the college requirements for graduation.

103. *General Biology (Zoology)*

DR. VAN DAM

A study of general principles of structure, function, and development of animal cells and organs, and of representative animal types. Prerequisite, Chemistry 101, 102. Two hours of lecture; two two-hour laboratory periods per week. *Four semester hours.*

104. *General Biology (Botany)*

DR. VAN DAM

A study of general principles of structure, function and development of plant cells and of representative plant types. Prerequisite, Biology 103. Two hours of lecture; two two-hour laboratory periods per week. *Four semester hours.*

Courses 103 and 104 are the basic introductory courses prescribed for all biology majors and for any others who are planning to meet the various pre-professional requirements in biology.

6. *Advanced Botany*

DR. WAGNER

The course is designed to give the student a more detailed knowledge of the vascular plant groups, stressing the principles of taxonomy, ecology, and plant geography. Lectures and discussions followed by field and laboratory work. Prerequisite, course 104. Two hours of lecture; one three-hour laboratory period per week. *Three semester hours.*

Biology 6 is required for those who intend to apply for certification in Pennsylvania as teachers of biology and for pre-veterinarian students.

7. *Vertebrate Anatomy*

DR. HOWARD

The comparative anatomy and relationships of the chordates. A survey of the lower chordates and a detailed consideration of the external anatomy, the skeletal and muscular systems of the Lamprey, Dogfish, Necturus, Alligator, Pigeon, and Cat. Prerequisite, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. *Four semester hours.*

8. *Vertebrate Anatomy*

DR. HOWARD

A continuation of course 7 covering the digestive, circulatory, uro-genital and nervous systems of the Lamprey, Dogfish, Necturus, Alligator, Pigeon, and Cat. Prerequisites, Biology 103, 104, 7. One hour of lecture; two three-hour laboratory periods per week. *Four semester hours.*

17. *Human Anatomy and Physiology*

DR. VAN DAM, MRS. SHINEHOUSE

A study of the structure, function and development of the muscular, skeletal, and nervous systems. One hour of lecture; one two-hour laboratory period per week. *Two semester hours.*

18. *Human Anatomy and Physiology*

DR. VAN DAM, MRS. SHINEHOUSE

A study of the structure, function, and development of internal and sense organs. Prerequisite, Biology 3 or 103. One hour of lecture; one two-hour laboratory period per week. *Two semester hours.*

19. *Embryology*

DR. WAGNER

Gametogenesis, early development, histogenesis and organogenesis of selected animal types, especially the chick, pig, and human. Prerequisites, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. *Four semester hours.*

20. *Histology*

DR. WAGNER

Structural and developmental study of tissues and organs of the vertebrate body. Introduction to histological technique. Prerequisite, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. *Four semester hours.*

21. *Heredity*

DR. WAGNER

Lectures and discussion dealing with the principles of plant and animal genetics, and the consideration of factors pertaining to human inheritance. Assigned readings and papers. Prerequisite, Biology 3, 4 or 103, 104. Three hours per week. *Three semester hours.*

22. *Evolution*

DR. WAGNER

Lectures and discussions explaining the history of living things in space and time. Assigned readings and papers. Open to all students. *Two semester hours.*

23. *Seminar*

STAFF

Papers and reports concerned with selected phases of biological knowledge. Topics to be chosen by the instructor in charge. Prerequisites, Biology 7-8; or 19, 20. Open to fourth year majors in biology. One hour per week. *One semester hour.*

24. *Seminar*

STAFF

A continuation of course 23. Prerequisites, Course 7-8; or 19, 20. Open to fourth year majors in biology. One hour per week. *One semester hour.*

25. *General Physiology*

DR. VAN DAM

A study of physical-chemical aspects of cellular processes, and principles of related experimental techniques. Prerequisites, Biology 103, 104; Chemistry 101, 102 (107, 108 recommended); Physics 1, 2. Two hours of lecture; one four-hour laboratory period per week. *Four semester hours.*

Enrollment is limited to 12 students in each term. A minimum enrollment of four students is required for course to be offered.

26. *General Physiology*

DR. VAN DAM

A continuation of Biology 25. Prerequisites, Biology 7, 8, 25. Two hours of lecture; one four-hour laboratory period per week. *Four semester hours.* A minimum enrollment of four students is required for course to be offered.

CHEMISTRY

PROFESSOR STURGIS
PROFESSOR PETTIT

ASSOCIATE PROFESSOR STAIGER
ASSISTANT PROFESSOR FORTNUM

The courses of study offered by the Chemistry Department are (1) to provide a course in general chemistry which will satisfy the requirements of the College for a laboratory science; (2) to provide training in chemistry for students planning to teach; (3) to provide more than minimum training for students planning to become technicians in medical laboratories, and for pre-dental and pre-medical students; (4) to offer sufficient specialized training in chemistry beyond the basic courses that will enable a graduate to enter a career as a professional chemist; and (5) to prepare students for graduate training.

Students whose principal interest is Chemistry will select a degree of concentration consistent with their vocational objective.

One of the following programs must be selected:

1. *Chemistry Major*

This program outlined in detail on page 107 is approved by the American Chemical Society for undergraduate professional training in Chemistry.

The following courses are prescribed: Chemistry 101, 102, 3, 4, 5, 7, 8, 9, 10, 11; Mathematics 5, 6; Physics 1, 2; Physics 4 and Math 7 or Biology 3, 4.

2. *Healing Arts*

This program is designed for degree-seeking students planning for admission to professional schools in the healing arts (medicine, dentistry, osteopathy, veterinary medicine, etc.) who are specializing in Chemistry in college.

The following courses are prescribed: Chemistry 101, 102, 3, 7, 8, 9, 10; Mathematics 5, 6; Physics 1, 2; Biology 103, 104.

3. *Teaching*

This program (major in Science, concentration in Chemistry) is designed for prospective secondary school teachers whose principal interest is Chemistry and who wish to be certified in Physical Science, Science, and General Science.

The following courses are prescribed by the Department of Chemistry: Biology 3, 4, 21, 22; Chemistry 101, 102, 3, 7, 8; History 16; Mathematics 1, 2; Physics 1, 2, 11, 12. *A student presenting six credits in general chemistry may satisfy the prerequisite for an advanced course by passing a written examination set by the faculty of the Department.*

1. *General Chemistry*

DR. FORTNUM

A development of the facts, theories, and methods of chemistry as applied to solids, liquids, gases and solutions. Related laboratory work is given. Chem. 1 does not satisfy the prerequisite requirements for advanced chemistry courses. Two hours of lecture and three hours of laboratory per week. *Three semester hours.*

2. *General Chemistry*

DR. FORTNUM

A continuation of Course 1. Prerequisite, Chemistry 1. A study of the properties and reactions of the elements. A study of descriptive inorganic and organic chemistry based on principles of equilibrium and structure. Chemistry 2 does not satisfy the pre-

requisite for advanced chemistry courses. Two hours of lecture and three hours of laboratory per week. *Three semester hours.*

101. *General Chemistry*

DR. STAIGER

A study of the basic theories and laws of chemistry covering the common elements of the periodic system, their structures, interactions and energy relationships. This course is accompanied by work in the mathematical solution of chemical problems and is the prerequisite to advanced chemistry courses. Three hours of lecture and recitation and three hours of laboratory per week. *Four semester hours.*

102. *General Chemistry*

DR. STAIGER

A continuation of Course 101. Prerequisite, Course 101. A study of oxidation states of the common elements, chemical equilibrium, solubility product and pH. The laboratory experimentation deals with the qualitative separation and characterization of the common cations and anions. Three hours of lecture and recitation and three hours of laboratory per week. *Four semester hours.*

3. *Quantitative Analysis*

DR. STURGIS

A study of commonly used methods of gravimetric and volumetric analysis. Emphasis is placed on the theory of equilibrium developed in Course 102. Three hours lecture and three hours of laboratory per week. *Four semester hours.*

4. *Inorganic Chemistry*

DR. STAIGER

A study of the nuclear and extranuclear structure of the atom, chemical bonding stereo-configuration of molecules and coordination compounds. The laboratory covers special preparative techniques involved in inorganic synthesis. Two hours of lecture and three hours of laboratory per week. Prerequisite, Course 9. *Three semester hours.*

5. *Analytical Chemistry*

DR. STURGIS

An advanced course in quantitative analysis. Methods of separation for complicated materials including the quantitative estimation of organic compounds and the use of chromatography, spectroscopy, and electrometric methods in analysis are studied. Prerequisites, Courses 3, and 10. Two hours of lecture and three hours of laboratory per week. *Three semester hours.*

6. *Analytical Chemistry*

DR. STURGIS

A continuation of Course 5. Prerequisite, Course 5. Two hours of lecture and three hours of laboratory per week. *Three semester hours.*

7. *Organic Chemistry*

DEAN PETTIT

The study of the properties, synthesis, and the structure of the most important classes of the carbon compounds. Prerequisites, Courses 101, 102 or equivalent. Three hours of lecture and three hours of laboratory per week. *Four semester hours.*

8. *Organic Chemistry*

DEAN PETTIT

A continuation of Course 7. Prerequisite, Course 7. Three hours of lecture and three hours of laboratory per week. *Four semester hours.*

9. *Physical Chemistry*

DR. FORTNUM

A study of the principles of chemistry. The principles of thermodynamics and quantum chemistry are used in studying the states and structure of matter. Kinetics and mechanism, equilibrium, electro-chemistry, surface chemistry, solutions, and phase rule

are also studied. Related laboratory work is provided. Prerequisites, Chemistry 102, Physics 2, and Mathematics 6. Three hours of lecture and three hours of laboratory work per week. *Four semester hours.*

10. *Physical Chemistry*

DR. FORTNUM

A continuation of Course 9. Prerequisite, Course 9. Three hours of lecture and three hours of laboratory work per week. *Four semester hours.*

11. *The Identification of Organic Compounds*

DR. STAIGER

The classification and identification of organic compounds based on physical and chemical properties; the chemical analysis of organic functional groups and the preparation of characteristic derivatives. Two hours of lectures and six hours of laboratory per week. Prerequisite, Course 8. *Four semester hours.*

12. *Advanced Organic Chemistry*

DR. STAIGER

A study of the structures of organic molecules and their relation to the mechanism of organic reactions. Prerequisite, Courses 4, and 10. Two hours of lecture per week. *Two semester hours.*

20. *Seminar*

DR. FORTNUM

Paper and reports in Physical Chemistry. One hour per week. Prerequisite, Course 9. *One semester hour.*

21. *The Literature of Chemistry*

DEAN PETTIT

The use of books, journals, and reports in the field of chemistry. Open to third and fourth year students. Prerequisites, Course 8, German 4. One hour per week. *One semester hour.*

*22. *Seminar in Organic Chemistry*

DEAN PETTIT

Reports on recent advances in Organic Chemistry. One hour per week. *One semester hour.*

30. *Research*

STAFF

This course consists of laboratory and library work together with a final written report. It is open to Chemistry majors who have attained an average of 80 in all courses during the first five semesters and who have received the approval of the department in the course. The laboratory work will be the equivalent of three hours of work per week. *Two semester hours.*

CLASSICAL LANGUAGES

PROFESSOR DONALD BAKER

The chief objective of the Classics Department is to develop in the student accuracy in thought and verbal expression. Other objectives are to enlarge the student's perspective by introducing him to a civilization other than his own; to increase his knowledge and understanding of the literature and institutions of England and America by studying the Greek and Roman sources from which they came; to encourage in the student a mastery of two languages which are important tools in many fields.

**This course is not offered in 1963-1964*

Students majoring in Classical Languages are required to take at least 12 semester hours of Greek and 12 semester hours of Latin beyond Latin 2. In the first half of his senior year, each student must take the Seminar in Classical Studies, Greek 7. In the examination at the close of this course, he will be expected to show a satisfactory general knowledge of Greek and Roman literature, language, art, history, geography, mythology, religion, and private life. For this examination the student is expected to prepare himself (with the advice and help of the instructor) throughout his previous three years both by courses and by outside reading.

GREEK

1. *Beginning Greek*

DR. BAKER

Three hours per week. *Three semester hours.*

Course 1 may be elected by students in any major field.

2. *Intermediate Greek*

DR. BAKER

Three hours per week. *Three semester hours.*

Prerequisite, Greek 1 or its equivalent.

3, 4, 5, 6. *Advanced Greek*

DR. BAKER

Readings from Homer, Thucydides, Aristophanes, and other authors depending on the preferences and capacities of those electing the course. Only one of these courses will be given in any one semester. *Three semester hours.*

7. *Seminar in Classical Studies*

DR. BAKER

A study of selected topics dealing with the Greco-Roman world. Knowledge of Greek and Latin is a prerequisite. Three hours per week. *Three semester hours.*

8. *New Testament Greek*

DR. DONALD BAKER

Three hours per week. *Three semester hours.*

DR. DAVID BAKER

Prerequisite, Greek 2.

LATIN

1. *Elementary Latin*

DR. BAKER

A study of the grammar, syntax, and vocabulary, with emphasis upon the Latin elements in English words. Reading of passages from various authors. Three hours per week. *Three semester hours.*

2. *Elementary Latin continued*

DR. BAKER

Three semester hours.

3, 4. *Ovid, Virgil*

DR. BAKER

Each *three semester hours.*

Prerequisite, Latin 2 or its equivalent.

5, 6, 7, 8, 9, 10, 11, 12. *Advanced Latin*

DR. BAKER

The instructor will arrange with students electing these courses to read authors of one period or literary type, or authors whose works may be correlated with other fields of study, e.g., philosophy, history, law. Not more than two of these courses will be given in any one semester. Each of them carries *three semester hours* credit.

Prerequisite, Latin 4 or its equivalent.

22. *Preparation for Teaching Latin*

DR. BAKER

For third-year or fourth-year students. Three hours per week. *Three semester hours.*

DRAFTING AND DESCRIPTIVE GEOMETRY

1. *Drafting*

MR. MARSTELLER

Freehand lettering, use of instruments, geometric construction, freehand sketching, orthographic projection including auxiliary views, sectioning, axonometric projection, oblique projection, intersections, developments, fasteners, dimensioning, working drawings, shop processes, reproduction methods, graphs. Six hours laboratory per week. *Three semester hours.*

2. *Descriptive Geometry*

MR. MARSTELLER

Principles of projection, problems involving the essential relations of points, lines and planes, surfaces of revolution, warped surfaces, intersections, developments. Six hours laboratory per week. *Three semester hours.*

ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR SHEARER

ASSISTANT PROFESSOR RAFETTO

ASSISTANT PROFESSOR SYMONS

MR. MAC MURRAY

MR. HOFFMAN

The work in the department of Economics and Business Administration is designed to give (1) a knowledge of economic philosophy; (2) a knowledge of the structure and functioning of our economy; (3) a suitable background for those who wish to enter business or graduate school.

Students majoring in the department must take a minimum of thirty (30) semester hours of work in the department, including Courses 3, 4, 16, 21, 26, and 27; Mathematics 1-2 and 13-14; and Political Science 1-2.

3. *Economic Principles*

STAFF

Basic economic concepts, national income and its fluctuations, the money and banking system, and the role of government. Three hours per week. *Three semester hours.* Economics 3 is a prerequisite for all other courses.

4. *Economic Principles*

STAFF

Price theory, income distribution, international trade, and current economic problems. Three hours per week. *Three semester hours.* Economics 4 is a prerequisite for all other courses except Economics 3.

5. *Labor Economics*

MR. RAFETTO

Labor marketing with emphasis on employment and wage problems, economic security, and collective bargaining, including an appraisal of public policy. Prerequisites, Courses 3, 4. Three hours per week. *Three semester hours.*

**6. *Corporation Finance*

MR. SYMONS

Basic principles underlying the financing of the corporate structure. Short and long-term financing instruments. Expansion, failure, and reorganization of the corporation. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

****This course is not offered in 1964-1965.**

7. Marketing

MR. SYMONS

Basic principles and practices involved in the physical distribution of goods and services between producers and consumers. Methods used to create place, time, and possession utility. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

***8. International Economics**

MR. SYMONS

International trade theory involving classical and neoclassical concepts. Present institutional arrangements. Foreign exchange rates, balance of payments, tariffs. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

11. Accounting Principles

MR. HOFFMAN

Principles involved in the proprietorship and partnership form of organization. Adjusting and closing the books, preparation of statements and working papers. Problems and systematic practice set accompany the work. Prerequisite, Courses 3, 4, or the permission of the instructor. Four hours per week. *Three semester hours.*

12. Accounting Principles

MR. HOFFMAN

Principles involved in the corporate form of organization, including large enterprises and manufacturing types of business. Problems and a systematic practice set accompany the work. Prerequisite, Courses 3, 4, 11, or the permission of the instructor. Four hours per week. *Three semester hours.*

13. Public Finance and Taxation

MR. SYMONS

Principles of public expenditures, public revenues, public indebtedness, and financial administration. Attention will be given to the principles and workings of the Federal Income Tax Law. There will be class assignments in solving actual income tax problems. Prerequisites, Courses 3, 4. Three hours per week. *Three semester hours.*

*****14. Transportation**

DR. SHEARER

The rail, highway, water, pipeline, and air transportation systems of the United States. The economic significance of transportation; the pricing and regulating of transportation services; current problems. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

15. Business Law

MR. HOFFMAN

The fundamental procedures governing contracts, sales, agency, bailments, negotiable instruments, real and personal property. Lectures and study of cases and problems. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

16. Money and Banking

MR. SYMONS

Monetary theory and practice with reference to commercial banking in the United States. Governmental monetary and fiscal policies. International balance of payments. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

17. Government and Business

DR. SHEARER

Public policy toward business in the United States. Economic and legal aspects of

*This course is not offered in 1963-1964.

***This course is not offered in 1965-1966.

regulation. Anti-trust and public utility regulation emphasized. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

18. *Industrial Organization and Management*

MR. RAFETTO

Historical development of modern management practices. Principles and problems of organization, standardization, motivation, and control. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

19. *Intermediate Accounting*

MR. HOFFMAN

Application of the advanced principles of accounting to the construction of financial statements and the analysis of the financial structure of corporations. Included are problems involving working and corporate capital and analytical processes. Prerequisite, Courses 11, 12. Two hours per week. *Two semester hours.*

20. *Introductory Cost Accounting*

MR. HOFFMAN

Fundamental principles of cost accounting. Methods of finding the cost of specific orders or lots, fundamentals of process costs, accounting for by-products and joint products, estimate costs, and standard costs. Prerequisite, Courses 11, 12. Two hours per week. *Two semester hours.*

21. *History of Economic Thought*

MR. RAFETTO

The development of systematic economic thinking from early Mercantilism through the Physiocrat, Classical and Neo-Classical schools. Contrasts the thought, policy, and practices of the past with the present. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

26. *Intermediate Economics*

DR. SHEARER

Advanced study of national income, price theory, and income distribution. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

27. *Business Cycles*

DR. SHEARER

Measurement of business cycles, their causes, governmental policies of stabilization and growth, and forecasting. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

28. *Comparative Economic Systems*

MR. RAFETTO

Analysis of the Capitalist, Socialist, Communist, Fascist and cooperative economic systems. The economic policies and problems of the United Kingdom, U.S.S.R., Communist China, Yugoslavia, and India are reviewed. Prerequisite Courses 3, 4. Three hours per week. *Three semester hours.*

EDUCATION

PROFESSOR MINNICH

PROFESSOR MESSINGER

PROFESSOR FLETCHER

MR. KIRKPATRICK

The Department of Education provides the professional courses required for certification of Secondary School teachers in Pennsylvania, New Jersey, Delaware, and Maryland. Students preparing for requirements of other states should consult the Head of the Department for information concerning specific requirements of those states. In

planning its curriculum, the Department has in mind five specific areas in which the growth of students is to be stimulated:

1. To increase their awareness of the function of the school in modern society;
2. To understand the changing philosophies of education which are advanced with the changes occurring in society;
3. To increase their understanding of the nature of growth and development of human beings;
4. To understand how learning takes place;
5. To understand the methods used by the school in gaining its objectives.

The Department of Education regards the preparation of teachers to be a function of the College as a whole.

Students preparing for teaching must complete Psychology 1 prior to taking courses in Education. Students are expected to follow the sequence of courses listed below:

Spring semester of the second year, Education 2.

Fall semester of the third year, Education 31.

Spring semester of the third year, Education 32 and Education 48.

Fall semester of the fourth year, Education 5 (Student Teaching).

Spring semester of the fourth year, Education 44.

2. *Introduction to and Principles of Secondary School Teaching*

DR. MESSINGER

The characteristics of teaching as a profession with special reference to secondary education; the nature and interests of adolescents; the task of secondary schools in the United States contrasted with those in other countries; the organization of secondary education to meet the needs of pupils. Three hours per week during the second semester of the second year. *Three semester hours.*

5. *Student Teaching*

DR. MESSINGER, MR. MINNICH

A laboratory course in student teaching consisting of observation, participation and teaching in neighboring high schools, with individual and group conferences. Consult the instructor for the requirements of different states. Required to complete certification. Open only to fourth-year students who meet the personality and scholastic requirements. This course is given in the fall term, and only six hours of additional work may be carried with it. Prerequisite, Courses 2, 31, 32, 48. *Eight semester hours.*

9. *Educational and Psychological Tests and Measurements*

DR. FLETCHER

An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite, courses 31, 32. Three hours per week. *Three semester hours. (Same course as Psychology 9).*

24. *Visual and Auditory Aids*

MR. MINNICH

A study of the design, construction, and application of the combined visual and auditory aids to learning; anatomy and physiology of the eye and ear; the psychology of sensation and perception and its application in the use of slides, charts, motion pictures, and models. Review of applied research projects dealing with audio-visual aids to instruction and learning. Three hours per week. *Three semester hours.*

31. *Educational Psychology-Growth and Development* DR. FLETCHER, MR. KIRKPATRICK

The nature of growth. The dynamics of personality development. The characteristics of physical, mental, emotional and social growth from the prenatal period until old age. The development of attitudes, interests and values. The ideal of an integrated personality. (Same course as Psychology 31). Three hours per week. *Three semester hours.*

32. *Educational Psychology-Learning and Teaching* DR. FLETCHER, MR. KIRKPATRICK

The role of the teacher as a professional person. Basic learning theory needed by teachers. The nature and conditions of learning. The development of learning units. Individual differences in mental ability and their educational implications. Mental hygiene in the classroom. (Same course as Psychology 32). Three hours per week. *Three semester hours.*

44. *Social Foundations of Education* MR. MINNICH

Historical, economic, social and philosophical changes studied from the standpoint of their effects upon the development of the school, its curriculum and personnel. Three hours per week. *Three semester hours.*

48. *Special Methods of Teaching in the Secondary School* STAFF

Dr. Messinger and Dr. Heilemann (Science), Mr. Minnich (Social Studies), Dr. Kershner (English), Dr. Vorrath (Romance Languages), Dr. Hartzell (German), Dr. Dennis (Mathematics), Miss Snell (Health and Physical Education).

This Course meets three times a week, twice with the teacher from the special field and once with a member of the Department of Education.

Grades for Education 48 will be determined cooperatively by the instructor in Education and the instructor in the particular special field.

This course includes materials and methods of instruction and curriculum in each special field with consideration of the course of study for Pennsylvania and a survey of the literature dealing with the methods, problems, and the curriculum in each special area of instruction. *Three semester hours.*

This course shall be designated on the college records as *Education 48* with the following suffixes:

- (S) — Science
- (SS) — Social Science
- (E) — English
- (RL) — Romance Languages
- (G) — German
- (M) — Mathematics
- (H. and P.E.) — Health and Physical Education

Education 48, Health and Physical Education, will be satisfied by Education 48 (in part), one semester hour, together with either Physical Education 55 or 56.

Complete statements of the various requirements for certification in each subject matter area, for both Pennsylvania and New Jersey, are obtainable at the Office of Admissions and at the office of the head of the department of Education.

ENGLISH

PROFESSOR YOST
PROFESSOR MC CLURE
PROFESSOR PHILLIPS
PROFESSOR DONALD BAKER
ASSOCIATE PROFESSOR DOLMAN

ASSOCIATE PROFESSOR STOREY
ASSISTANT PROFESSOR JONES
ASSISTANT PROFESSOR KERSHNER
MR. HUDNUT
MR. GUSTAVSON

This department offers instruction in the knowledge and use of the English language, a study based on the premise that language is the indispensable tool in the life and labor of civilized man and is the art through which he most fully expresses his spirit. Its courses in literature provide opportunity to form an extensive acquaintance with English and American literature and to understand individual works as unique artistic creations and as products of a historical and social process. The ultimate aim is to implant a discriminating appreciation for the best that has been written in our civilization.

Students majoring in English must take the following courses: English Literature 3, 4; 9, 10; 11, 12; 19, 20; and eight additional semester hours in English; History 9, 10 or 11, 12; 13, 14.

Students preparing for graduate study in English should elect French and German as their modern languages. Study in classical languages is strongly recommended for such students.

COMPOSITION

1. *First Year Composition*

DR. YOST AND STAFF

The fundamental grammar of English; the study and writing of expository prose. Three hours per week. *Three semester hours.*
The fundamental grammar of English; the study and writing of expository prose. Three hours per week. *Three semester hours.*

2. *First Year Composition*

DR. YOST AND STAFF

Continuation of Course 1; training in the critical reading of prose and verse. Prerequisite, Course 1. Three hours per week. *Three semester hours.*
Course 2 is prescribed for all students.

3. *Second Year Composition*

DR. YOST AND STAFF

Problems of functional writing; expository methods and practice. Prerequisite, Courses 1 and 2. One hour per week. *One semester hour.*
Course 3 is prescribed for all students.

4. *Second Year Composition*

DR. YOST AND STAFF

Continuation of Course 3. Prerequisite, Course 3. One hour per week. *One semester hour.*
Course 4 is prescribed for all students.

5. *Advanced Composition*

MR. DOLMAN

Discussion of and practice in current types of *fictional* writing, with emphasis on the *short story*. Prerequisite, Courses 1, 2, 3, 4. Two hours per week. *Two semester hours.*

6. *Advanced Composition*

MR. DOLMAN

Discussion of and practice in non-fictional writing with an introduction to basic forms

of journalism. Prerequisite, Courses 1, 2, 3, 4. Two hours per week. *Two semester hours.*

***7. Advanced Composition**

MR. DOLMAN

A course in descriptive writing and an introduction to the various creative forms used in Composition 8. Prerequisite, Courses 1, 2, 3, 4. Two hours per week. *Two semester hours.*

***8. Advanced Composition**

MR. DOLMAN

A conference course in creative writing offering the student opportunity to practice his favorite type of composition. Enrollment is limited to twelve qualified students by arrangement with the instructor. Prerequisite, Courses 1, 2, 3, 4. Individually scheduled. *Two semester hours.*

Courses 5 and 6 alternate with Courses 7 and 8.

LITERATURE

3. Survey of English Literature

DR. PHILLIPS, DR. STOREY, DR. KERSHNER, MR. JONES

The history of English Literature from the beginning to the end of the neo-classical era. Special attention is given to the social background. Two hours per week. *Two semester hours.*

4. Survey of English Literature

DR. PHILLIPS, DR. STOREY, DR. KERSHNER, MR. JONES

A continuation of course 3 to the present. Two hours per week. *Two semester hours.* Courses 3, 4 are prescribed for second-year students majoring in English and are elective for second-year students in other major fields.

***5. The English Essay. Eighteenth Century**

DR. STOREY

A study of the essay and non-fictional prose from the age of Queen Anne to the end of the eighteenth century. Three hours per week. *Three semester hours.* Course 5 is elective for third-year and fourth-year students.

***6. The English Essay. Nineteenth Century**

DR. STOREY

A study of the essay and non-fictional prose from Lamb to Stevenson. Three hours per week. *Three semester hours.* Course 6 is elective for third-year and fourth-year students.

7. English Poetry, 1790-1824

DR. YOST

A study of English poetry from 1790 to the death of Byron. The decline of neo-classicism; the romantic movement. Three hours per week. *Three semester hours.* Course 7 is elective for third-year and fourth-year students.

8. English Poetry, 1824-1890

DR. YOST

A study of the poetry of Tennyson and his contemporaries. Three hours per week. *Three semester hours.* Course 8 is elective for third-year and fourth-year students.

9. Shakespeare

DR. MC CLURE

The reading of Shakespeare's principal plays and the study of their background. Three hours per week. *Three semester hours.*

**This course is not offered in 1963-1964.*

10. *Shakespeare*

DR. MC CLURE

Continuation of Course 9. Course 9 is not a prerequisite for Course 10. Three hours per week. *Three semester hours.*

Courses 9 and 10 are prescribed for third-year and fourth-year students majoring in English and are elective for third-year and fourth-year students in other major fields.

Courses 9 and 10 alternate with Course 16.

11. *History of the English Language*

DR. MC CLURE

Introduction to Anglo-Saxon and the history of the English Language. Two hours per week. *Two semester hours.*

12. *History of the English Language*

DR. MC CLURE

Continuation of Course 11. Prerequisite 11. Two hours per week. *Two semester hours.* Course 11-12 is prescribed for second-year students majoring in English and is elective in other major fields.

15. *Modern Poetry*

DR. PHILLIPS

English poetry from 1890 to the present. Two hours per week. *Two semester hours.* Course 15 is elective for all students.

*16. *English Poetry, 1500-1600*

DR. MC CLURE

The development of narrative and lyric poetry. Two hours per week. *Two semester hours.*

Course 16 is elective for all students.

17. *The English Novel*

DR. PHILLIPS

A reading course in the development of the novel from its origin to the present. Two hours per week. *Two semester hours.*

Course 17 is elective for all students.

18. *Modern Drama*

DR. PHILLIPS

A reading course in the modern European and American drama from Ibsen to the present. Two hours per week. *Two semester hours.*

Course 18 is elective for all students.

19. *American Literature*

DR. YOST

A survey of American literature from its beginning to the Civil War. Three hours per week. *Three semester hours.*

20. *American Literature*

DR. YOST

American literature from the Civil War to the present. Prerequisite, Course 19. Three hours per week. *Three semester hours.*

Course 19-20 is prescribed for third-year and fourth-year students majoring in English and is elective for second-year, third-year and fourth-year students in other major fields.

21. *Classics in Translation*

DR. BAKER

A study of the major authors of ancient Greece and Rome, with a view to understand-

*This course is not offered in 1963-1964.

ing the background of European and English literature. Two hours per week. *Two semester hours.*

22. *Classics in Translation*

DR. BAKER

Continuation of Course 21. Two hours per week. *Two semester hours.*
Courses 21, 22 are elective for third-year and fourth-year students.

24. *English Poetry*

DR. YOST

A seminar in the reading and interpretation of English and American poetry. Prerequisite, Course 3-4. Three hours per week. *Three semester hours.*
Course 24 is elective for fourth-year students, with the permission of the instructor.

FRENCH

See under *Romance Languages.*

GEOGRAPHY

See *History 28*

GEOLOGY

VISITING PROFESSOR BOGERT

The science of geology presents to the student the fundamental concepts of the earth and its relationships to the economic and cultural worlds of man.

1. *Physical Geology*

MR. BOGERT

The analysis of earth materials, structures, and processes that form the earth's surface. Two hours of lecture and two hours of laboratory work per week. *Three semester hours.*

2. *Historical Geology*

MR. BOGERT

A systematic study of the earth's historic events as recorded by geologic processes and organic evolution. Two hours of lecture and two hours of laboratory work per week. *Three semester hours.*

GERMANIC LANGUAGES

PROFESSOR HARTZELL

MR. GEIGER

PROFESSOR RICE

The German Department strives to encourage the student to read, translate, write, and speak German well.

The reading material is chosen with the principles of Ursinus College in mind.

GERMAN

Students majoring in German must take the following courses: German 5, 6; 7, 8; 9, 10; and 13-14; twelve (12) semester hours study in another language.

1. *Elementary German*

DR. RICE

Elements of pronunciation; essentials of grammar. Three hours per week. *Three semester hours.*

This course is elective for all students who do not offer German for admission.

2. *Elementary German*

DR. RICE

Continuation of German 1. Review of essentials of grammar; reading of simple prose and poems. Three hours per week. *Three semester hours.*

3. *Intermediate German*

DR. HARTZELL, MR. GEIGER

Grammar review; reading of more difficult German prose and poetry, composition, and conversation.

This course is required of those who have had two years of high school German and elect to continue the study of German in college. Three hours per week. *Three semester hours.*

4. *Intermediate German*

DR. HARTZELL, MR. GEIGER

Continuation of German 3. The student is encouraged to develop facility in reading, writing, and speaking German. Three hours per week. *Three semester hours.*

5. *Advanced German Reading*

DR. HARTZELL

Reading of material which will give background for the understanding of Goethe's *Faust*. Three hours per week. *Three semester hours.*

6. *Goethe's Faust*

DR. HARTZELL

A careful study of the text of Goethe's *Faust I* and parts of *Faust II* and the *Urfaust*. Three hours per week. *Three semester hours.*

7. *German of the Classic Period*

DR. HARTZELL

The masterpieces of Lessing and Klopstock. Two hours per week. *Two semester hours.*

8. *German of the Classic Period*

DR. HARTZELL

The masterpieces of Schiller and Goethe. Two hours per week. *Two semester hours.*

*9. *Literature of the Nineteenth Century*

DR. HARTZELL

A careful reading of representative works of the Nineteenth Century. Two hours per week. *Two semester hours.*

*10. *Literature of the Twentieth Century*

DR. HARTZELL

A careful reading of representative works of the Twentieth Century. Gerhart Hauptmann, Kafka, Thomas Mann, Schnitzler and Wiechert are the writers whose works are studied. Two hours per week. *Two semester hours.*

*11. *Scientific German*

DR. RICE

Reading and careful translation of original works in scientific fields. Two hours per week. *Two semester hours.*

*12. *Scientific German*

DR. RICE

Continuation of German 11. Readings may be assigned in scientific journals. Individual consultations. Two hours per week. *Two semester hours.*

*This course is not offered in 1963-1964.

13. *Writing and Speaking German*

MR. GEIGER

Practice in the oral elements of the language; written composition. Two hours per week. *Two semester hours.*

14. *Writing and Speaking German*

MR. GEIGER

Continuation of German 13. Increased emphasis upon speaking German. Two hours per week. *Two semester hours.*

SWEDISH

Study of Swedish will not fulfill the College general requirement of language for graduation.

1. *Swedish Language and Culture*

DR. RICE

Grammar, reading, and lectures on cultural background. Three hours per week. *Three semester hours.*

2. *Swedish Language and Culture*

DR. RICE

Continuation of Swedish 1. Students completing this course will be able to read Danish and Norwegian as well as Swedish. Three hours per week. *Three semester hours.*

*3. *Advanced Swedish*

DR. RICE

Readings in Swedish literature, including selections from Danish and Norwegian. Three hours per week. *Three semester hours.*

*4. *Advanced Swedish*

DR. RICE

Continuation of Swedish 3. More readings in Swedish literature, including selections from Danish and Norwegian. Three hours per week. *Three semester hours.*

GREEK

See under *Classical Languages.*

HEALTH AND PHYSICAL EDUCATION

PROFESSOR MINNICH

PROFESSOR BAILEY

PROFESSOR SNELL

ASSOCIATE PROFESSOR GURZYNSKI

ASSISTANT PROFESSOR WHATLEY

ASSISTANT PROFESSOR HARRIS

The Health and Physical Education Department of Ursinus College includes two distinct functions: the Service Program, and the Professional course for Teachers. The Service Program includes the requirement of two periods per week in Physical Education for all students in the freshman year, organization of a diversified intramural program for all men and women, and ample provision of facilities for numerous outdoor sports and activities.

The Professional Program for Teachers is a four-year course offered for the training of teachers of Health and Physical Education. It is designed to give specific training in the field of Health and Physical Education within the framework of accepted Liberal Arts education.

**This course is not offered in 1963-1964.*

Students majoring in Health and Physical Education must take the following courses: Physical Education 31, 32m (32w), 43, 44, 51, 52, 54, 55, 56, 57, 58, 61, 62, 64; 301, 302; 303, 304; 305, 306; 307, 308; Biology, 3, 4; 17, 18; Psychology 8.

SERVICE COURSES

MR. WHATLEY, MISS HARRIS

101, 102. A basic course offering a variety of seasonal games and skills. It is designed to provide enjoyment and relaxation and to develop recreational and social competencies through participation in stimulating activities. *This course is a requirement for graduation for all students except those majoring in physical education, and must be completed in the first year.* Two hours per week. Not a credit course.

PROFESSIONAL COURSES

HEALTH AND PHYSICAL EDUCATION

31. *Principles and History of Physical Education*

MISS SNELL

An orientation course designed to give the student an understanding of the meaning, basic philosophies, principles, and problems of physical education; an analysis of its historical background from the era of primitive man to modern times. Three hours per week. *Three semester hours.*

32m. *Personal and Community Health (Men students only)*

MR. GURZYNSKI

A study of factors affecting the physical, mental, and social well-being of the individual and of the community. Major emphasis is placed upon problems of personal health including disease prevention and the understanding of the functioning of the human body. Three hours per week. *Three semester hours.*

32w. *Personal and Community Health (Women students only)*

MISS SNELL

Subject matter and presentation as for Physical Education 32m. Three hours per week. *Three semester hours.*

43. *Community Recreation Programs*

MR. BAILEY

A comprehensive analysis of the leisure-time problem. An examination of the nature, scope, need, and function of community recreation programs, and of the social and economic forces affecting them. Three hours per week. *Three semester hours.*

44. *Problems and Materials of Health and Safety Education in School Programs*

MISS HARRIS

The scope, responsibility, and function of the health education program in the school with particular stress upon the phases of healthful school living, health service, and safety education. Resource materials are studied and compiled. Two hours per week. *Two semester hours.*

51. *Kinesiology*

MR. GURZYNSKI

An anatomical analysis of the mechanics of body movement and position. A study of the fundamental anatomical concepts in relation to the development of physical education skills. Prerequisite, Biology 17, 18. Two hours per week. *Two semester hours.*

52. *Physiology of Activity*

MR. GURZYNSKI

The physiological phenomena underlying physical activity. The anticipatory, immediate, and after effects of exercise on the different organs and the organism as a whole. Class discussion and laboratory demonstration. Prerequisite, Biology 17, 18. Two hours per week. *Two semester hours.*

54. *First Aid and Care and Prevention of Athletic Injuries*

MISS HARRIS

This course deals with the causes, preventive procedures and emergency treatment for all types of common injuries and with those injuries specifically incident to athletic competition. Conditioning exercises, diet and various therapeutic aids are studied. Laboratory practice includes bandaging, taping, massage, and the clinical use of physical therapy equipment. This work may lead to the Red Cross Advanced First Aid certificate. Two hours per week. *Two semester hours.*

55. *Principles and Methods of Teaching Physical Education*

MISS SNELL

Principles, methods, and problems of teaching physical educational activities at the elementary and secondary school levels, lesson planning, unit and curriculum construction. Open only to physical education majors or students who have completed six hours in Education. Two hours per week. *Two semester hours.*

56. *Methods of Health Instruction*

MISS SNELL

Analysis of the principles, materials, and methods involved in the teaching of health at different age levels. Lesson plans and units construction. Open only to physical education majors or students who have completed six hours in Education. Two hours per week. *Two semester hours.*

57. *Principles and Methods of Coaching and Officiating*

MISS SNELL,

MR. GURZYNSKI, AND STAFF

This course is designed with particular reference to the needs of prospective coaches and officials. Opportunities are given for practice in coaching and officiating. Two classroom hours and one hour of practice per week. *Two semester hours.*

58. *Principles and Methods of Coaching and Officiating*

MISS SNELL,

MR. GURZYNSKI, AND STAFF

Continuation of Physical Education 57. Two hours per week. *Two semester hours.*

61. *Tests and Measurements in Physical Education*

MR. GURZYNSKI

This course aims to familiarize the student with the nature, function and history of specific tools of measurement in the field of physical education and to give him working knowledge and experience in the use of essential statistical procedures. Three hours per week. *Three semester hours.*

62. *Administration of Health, Physical Education, and Recreation*

MR. BAILEY

A study of the administrative problems in health education and physical education. Two hours per week. *Two semester hours.*

64. *Corrective and Adaptive Physical Education*

MR. GURZYNSKI

An analysis of conditions affecting the development of atypical children; methods for selecting and classifying such individuals, with particular attention to the adaption of activities to meet their needs. Three hours per week. *Three semester hours.*

4. *Leadership in Camp and Club Activities*

MR. WHATLEY

Discussion of the principles, characteristics, and processes of leadership in light of their significance to directors of camp and club activities. Three hours per week. *Three semester hours.*

ACTIVITIES COURSES

301, 302. *First Year Activities*

STAFF

Physical Education activities of a seasonal nature comprise the major content of this

course with greatest stress laid on team sports. All activities are analyzed from the teaching standpoint. Students are given opportunities for self evaluation and for creative and teaching experiences. Consideration is given to the role of rhythmical activities in the program and to the selection and sources of dance materials. Six hours per week. *Four semester hours.*

MEN: Football, soccer, tennis, basketball, baseball, track and field, volleyball, marching tactics, tumbling, calisthenics, apparatus, square, folk and social dancing.

WOMEN: Hockey, soccer, speedball, lacrosse, tennis, volleyball, basketball, softball, track and field, marching tactics, tumbling, calisthenics, rhythmic, square, folk and social dancing.

303, 304. Second Year Activities

STAFF

A continuation of Course 301 and 302 with some additional activities. More stress is placed on teaching and on the development of advanced skills and team strategies. Six hours per week. *Four semester hours.*

MEN: Football, soccer, speedball, tennis, volleyball, baseball, track and field, boxing, wrestling, marching tactics, tumbling, calisthenics, apparatus, tap dancing.

WOMEN: Hockey, soccer, speedball, lacrosse, tennis, volleyball, basketball, softball, track and field, archery, campcraft, canoeing, low organized games, rhythmic, calisthenics, tumbling, apparatus, tap dancing.

305, 306. Third Year Activities

STAFF

More time is devoted to individual sports with continuing emphasis upon the teaching and analysis of skills and strategies, and upon the role of these activities in the physical education program. Opportunity is given in modern dance for original composition. Six hours per week. *Four semester hours.*

MEN: Archery, golf, riding, tennis, lacrosse, canoeing, badminton, boxing, wrestling, swimming, apparatus.

WOMEN: Archery, golf, riding, tennis, lacrosse, canoeing, badminton, swimming, modern dance, apparatus.

307, 308. Fourth Year Activities

STAFF

A continuation of Course 305 and 306 at a more advanced level. Bowling and life-saving are offered as additional activities. Three hours per week. *Two semester hours.*

NOTE: Sophomore, junior, and senior women may attend a pre-session camp which offers activities in partial fulfillment of these requirements.

Professional courses offered by the Department of Health and Physical Education are designed for students majoring in Health and Physical Education. Students in other majors may elect such courses but academic credit will be withheld until the student has completed the general college requirements, his departmental requirements, and has earned a total of one hundred twenty semester hours credit. An exception will be made in the case of a student who wishes to have Health or Physical Education written upon his teaching certificate in addition to another subject matter certification. This will require him to take eighteen semester hours in either Health or Physical Education in order to obtain academic credit for these courses within the one-hundred-twenty hour limit.

HISTORY

PROFESSOR ARMSTRONG
PROFESSOR DONALD BAKER
PROFESSOR E. H. MILLER

ASSOCIATE PROFESSOR FOSTER
ASSISTANT PROFESSOR DAVIS
ASSISTANT PROFESSOR PARSONS

The objectives of the History Department are to provide an opportunity for students to understand the backgrounds of Western culture and their relationship to the whole world, to illuminate their chosen fields with a knowledge of pertinent historical material, and to become acquainted with the methods of objective historical research analysis.

In addition to History 1-2, students majoring in history must take Course 13-14; six additional semester hours of European history; ten semester hours in elective history courses, including one seminar; Economics 3, 4; Political Science 1, 2 and Sociology 1.

1. *European Civilization*

DR. ARMSTRONG AND STAFF

An introductory history of Europe for the purpose of providing a general historical background for other courses and for an understanding of contemporary world affairs. Required of all students for graduation, and prerequisite for all other history courses. Two lectures and one section meeting per week. *Three semester hours.*

2. *European Civilization*

DR. ARMSTRONG AND STAFF

Prerequisite History 1. Continuation of Course 1. Required of all students for graduation. Two lectures and one section meeting per week. *Three semester hours.*

*3. *Medieval Institutions*

DR. FOSTER

A study of selected economic, social, cultural, religious, and political institutions essential to the understanding of the period from the fall of Rome to the Renaissance. Three hours per week. This course is open only to third-year and fourth-year students. *Three semester hours.* (Alternates with 11.)

*4. *The Renaissance and the Reformation*

DR. ARMSTRONG

A study of humanism and religion in the 15th and 16th centuries. Three hours per week. This course is open only to third-year and fourth-year students. *Three semester hours.* (Alternates with 26.)

5. *The Age of Enlightenment*

MR. DAVIS

The development of the European state system 1648-1815, the Enlightenment, the French Revolution and the Napoleonic Era. Three hours per week. *Three semester hours.* (Alternates with 21.)

6. *The Age of Romanticism*

MR. DAVIS

European romanticism and nationalism 1815-1870. Three hours per week. *Three semester hours.* (Alternates with 22.)

*7. *The World Since 1870*

DR. ARMSTRONG

A study of the impact of industrialization, neo-imperialism, and nationalism upon European peoples and their overseas empires 1870-1914. Three hours per week. *Three semester hours.* (Alternates with 9.)

**This course is not offered in 1963-1964.*

*8. *The World Since 1870*

DR. ARMSTRONG

A continuation of Course 7 covering the period 1914 to the present. Three hours per week. *Three semester hours.* (Alternates with 10.)

9. *England and the British Empire*

DR. ARMSTRONG

A history of the English people with special attention to political and constitutional developments to 1600. Three hours per week. *Three semester hours.* (Alternates with 7.)

10. *England and the British Empire*

DR. ARMSTRONG

A continuation of Course 9 with special attention to political and imperial developments since 1600. Three hours per week. *Three semester hours.* (Alternates with 8.)

*11. *English Social History*

DR. FOSTER

A study of the daily life of the English people. Three hours per week. *Three semester hours.* (Alternates with 3.)

*12. *English Social History*

DR. FOSTER

A continuation of Course 11. Three hours per week. *Three semester hours.* (Given in alternate years.)

13. *The United States of America*

DR. PARSONS

Political and social history from colonial status to World Power with special emphasis on Pennsylvania. This course is prescribed for all students majoring in history and for any others who are preparing to teach social studies. Three hours per week. *Three semester hours.*

14. *The United States of America*

DR. PARSONS

A continuation of Course 13. Prescribed for all students majoring in history and for any others preparing to teach social studies. Three hours per week. *Three semester hours.*

*15. *American Diplomatic History*

MR. DAVIS

A study of American diplomacy from the treaty of 1783 to the present, including an analysis of the various factors which determine that policy: public opinion, population, world markets and international organization. Three hours per week. *Three semester hours.* (Given alternate years.)

16. *Economic and Social History of the United States and Pennsylvania*

DR. PARSONS

Economic foundations and social change in the United States with intensive study of Pennsylvania. Three hours per week. *Three semester hours.*

17. *Latin America*

DR. E. H. MILLER

Political and cultural backgrounds of South and Central American nations and their relation to the interests and policy of the United States. Three hours per week. *Three semester hours.* (Alternates with 23.)

18. *Latin America*

DR. E. H. MILLER

A continuation of Course 17. Three hours per week. *Three semester hours.* (Alternates with 24.)

*This course is not offered in 1963-1964.

19. *Greek History*

DR. BAKER

Studies in the political, social, and economic life of ancient Greece. Two hours per week. *Two semester hours.*

20. *Roman History*

DR. BAKER

This course deals especially with the government of the Roman Republic, the transition to Empire, and the causes of its decline. Two hours per week. *Two semester hours.*

*21. *The Middle East*

MR. DAVIS

The ancient civilization of Egypt, Babylonia, Persia, Greece, and the Byzantine Empire. The Moslem World and the Middle East in modern times. Three hours per week. *Three semester hours.* (Alternates with 5.)

*22. *The Middle East*

MR. DAVIS

Prerequisite Course 21. A continuation of Course 21. Three hours per week. *Three semester hours.* (Alternates with 6.)

*23. *The Far East*

DR. E. H. MILLER

History of the Asiatic Mainland and the Pacific Islands. Three hours per week. *Three semester hours.* (Alternates with 17.)

*24. *The Far East*

DR. E. H. MILLER

A continuation of Course 23. Three hours per week. *Three semester hours.* (Alternates with 18.)

25. *Russia*

MR. DAVIS

Political and social history of Russia. Three hours per week. *Three semester hours.* (This course is given in alternate years.)

26. *Canada*

DR. ARMSTRONG

The development of the Canadian people from colonial status to nationhood. Three hours per week. *Three semester hours.* (Alternates with 4.)

27. *History of Western Art*

DR. ARMSTRONG

An introduction to the history of architecture, sculpture and painting presented by means of illustrated lectures and museum trips. Three hours per week. *Three semester hours.*

28. *Geography*

MR. DAVIS

Extensive study of the major regions of the world. The purpose is to analyze each from the standpoint of climate, natural resources, and economic problems, and to give the student a fairly detailed knowledge of the physical geography of the regions. Three hours per week. *Three semester hours.*

29, 30. *Seminar in European History*

STAFF

Preparation and discussion of research papers in European history. Open to third and fourth year students with permission of the instructor. Two consecutive hours per week. *Four semester hours.*

*This course is not offered in 1963-1964.

31, 32. *Seminar in American History*

STAFF

Preparation and discussion of research papers in American history. Open to third and fourth year students with permission of the instructor. Two consecutive hours per week. *Four semester hours.*

The requirement for History 29, Seminar in European History, may be met by students who complete a special summer course of European travel and research conducted by a member of the Department of History of Ursinus College.

LATIN

See under *Classical Languages.*

MATHEMATICS

PROFESSOR MANNING

ASSISTANT PROFESSOR SCHULTZ

PROFESSOR DENNIS

MR. PENNA

The aims of the Mathematics Department are (1) the development of an appreciation of the role of mathematics in the progress of civilization, both past and present; (2) the development of the ability to do abstract, logical thinking by the analysis of the various deductive systems of mathematics; and (3) the development of special techniques which can be utilized in the related fields of physics, chemistry, biology, psychology and economics.

A student majoring in mathematics will take Mathematics 1a, 2a and 3, 4 in the first year; Mathematics 5, 6 and Physics 1, 2 (to satisfy the general requirement in science) in the second year. A student majoring in mathematics must elect a minimum of twelve additional hours from courses numbered 7 to 36 inclusive.

1. *Algebra*

MISS SCHULTZ, MR. PENNA

A basic course introducing the student to some of the modern concepts in mathematics which are useful in present day applications of mathematics in many fields. Some of the topics introduced include Boolean algebra, symbolic logic, number systems, groups, finite and infinite fields, and algebraic functions. Three hours per week. *Three semester hours.*

2. *Trigonometry*

MISS SCHULTZ, MR. PENNA

A continuation of Course 1. The general theory of functions is extended to include the trigonometric functions and their inverse, the logarithmic and exponential functions, analytic geometry and an introduction to probability theory and statistics. Three hours per week. *Three semester hours.*

1a. *College Algebra*

DR. DENNIS

A review of fundamental manipulations; solving and graphing equations; mathematical induction; binomial theorem; proportion; progressions; laws of logarithms; probability; determinants; partial fractions; and series. Designed for students majoring in mathematics and physics and for those interested in engineering. Three hours per week. *Three semester hours.*

2a. *Plans and Spherical Trigonometry*

DR. DENNIS

Trigonometric functions; inverse functions; solution of right and oblique triangles; use of slide rule; identities and equations; computations with logarithms; complex num-

bers; right spherical and oblique spherical triangles; applications to navigation and astronomy. Three hours per week. *Three semester hours.*

3. *Plane Analytic Geometry*

MR. PENNA

This course is designed to acquaint the student with the analytic method of treating locus problems. The fundamental theorems on distance, angle, and area are shown to be invariant under translations and rotations. Linear, polynomial, rational, and algebraic functions are graphed and the conics are studied extensively, with respect to transformations and invariants. Three hours per week. *Three semester hours.*

4. *Solid Analytic Geometry*

MR. PENNA

Higher plane curves; empirical equations; transcendental functions; tangents; pole and polar theory continue the analytic treatment in the plane. The course includes the plane and straight line in space, space curves and surfaces, with particular reference to the quadrics and ruled surfaces. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 3.

5. *Elementary Calculus*

DR. MANNING

Functions; limits; differentiation and integration of algebraic and transcendental functions. Three hours per week. *Three semester hours.*

6. *Elementary Calculus*

DR. MANNING

A continuation of Course 5. Applications of the calculus to problems in science and engineering. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 5.

7. *Differential Equations*

MISS SCHULTZ

Solution of first-order and first-degree equations; linear equations of higher order; complementary and particular solutions; integrating factors; operators; applications in the fields of chemistry and physics. *Offered in Spring Term.* Three hours per week. *Three semester hours.* Prerequisite, Mathematics 6.

9. *Advanced Calculus*

DR. DENNIS

Elementary functions for complex values of the variables; Taylor's series; partial differentiation and implicit functions; multiple integration; improper integrals; line integrals and functions of a complex variable. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 6.

10. *Advanced Calculus*

DR. DENNIS

A continuation of Course 9. Gamma functions; Legendre polynomials; Bessel functions; elliptic integrals; Fourier series; calculus of variations. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 9.

13. *Mathematical Statistics*

DR. MANNING, MISS SCHULTZ

Probability; statistical methods of studying data from the fields of economics, education and the natural sciences; graphs; averages; dispersion; sampling. Two hours per week. *Two semester hours.*

14. *Mathematical Statistics*

DR. MANNING, MISS SCHULTZ

A continuation of Course 13. Regression and correlation; forecasting; quality control; production control; testing hypotheses; analysis of variance. Two hours per week. *Two semester hours.* Prerequisite, Mathematics 13.

*15. *Theory of Numbers*

DR. DENNIS

Theory of primes and divisibility conditions; simple continued fractions; congruences; Fermat's theorem; Wilson's theorem; quadratic residues; reciprocity law; linear indeterminate problems; Diophantine equations. Three hours per week. *Three semester hours.*

*16. *Theory of Finite Groups*

DR. DENNIS

Fundamental theorems of finite groups; permutation groups; groups of movement; Abelian groups; prime-power groups; isomorphisms and the composition-series; Galois fields and their applications to finite geometries; groups of linear substitutions; Galois theory of equations. Three hours per week. *Three semester hours.*

*18. *Modern Geometry*

DR. DENNIS

Similarity; theorems of Ceva and Menelaus; points, lines, and circles related to the triangle; Brocard's configuration; coaxial circles; inversion; poles and polars; cross-ratio; involution; Pascal's and Brianchon's theorems; ruler and compass constructions. Three hours per week. *Three semester hours.*

20. *Probability*

MISS SCHULTZ

Simple and compound probability; repeated trials; runs; normal curve approximation; Bertrand's paradox; deMere's problem; St. Petersburg problem. Three hours per week. *Offered in Fall Term. Three semester hours.*

*21. *Vector Analysis*

DR. DENNIS

Elementary vector algebra and calculus with applications to geometry and physics; scalar and vector fields; gradient; divergence; curl; divergence theorem; Green's theorem; Stokes' theorem; coordinate systems and transformation theory; non-Euclidean manifolds. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 6.

22. *Theory of Functions of a Complex Variable*

DR. DENNIS

Algebra of complex numbers; analytic functions; Cauchy-Riemann equations; conformal mapping; integrals of complex functions; Cauchy's theorem; power series; Taylor's theorem; Laurent's theorem; residues and poles; transformations; analytic continuation; Riemann surfaces. *Offered in Fall Term.* Three hours per week. *Three semester hours.* Prerequisite, Mathematics 6.

27, 28. *Astronomy*

See *Physics*, Courses 11, 12.

35. *Modern Algebra*

DR. DENNIS

Theory of congruences; quadratic residues; theory of finite groups; algebraic fields; Galois theory of equations; integral domains; polynomial rings. Three hours per week. *Three semester hours.*

36. *Modern Algebra*

DR. DENNIS

A continuation of Course 35. Vectors and vector spaces; matrix theory; invariant factors and elementary divisors; linear associative algebras; quaternions; algebra of classes (Boolean Algebra). Three hours per week. *Three semester hours.*

*This course is not offered in 1963-1964.

MUSIC

PROFESSOR PHILIP

MISS SPANGLER

The program in music is designed to meet the needs of non-professional music students and to promote a wider knowledge and appreciation of the history, theory, and performance of great music. The program comprises classroom instruction and opportunities for individual and group participation.

A. THEORY OF MUSIC

1. *Elementary Harmony*

DR. PHILIP

A thorough foundation in the melodic, rhythmic, and harmonic elements of music; keys, scales, intervals, cadences, major and minor chords; rhythmic reading and dictation, time durations, and the study of compound and simple measures. Prerequisite, one year of piano study or of musical theory. Two hours per week. *Two semester hours.*

2. *Elementary Harmony*

DR. PHILIP

A continuation of Music 1. Prerequisite, Music 1. Two hours per week. *Two semester hours.*

B. APPRECIATION OF MUSIC

13. *Appreciation of Music*

DR. PHILIP

This course covers the early development of music through religious music, folk song and folk dance, and follows their progress to the larger forms of musical composition. Two hours per week. *Two semester hours.*

14. *Appreciation of Music*

DR. PHILIP

A continuation of Music 13. The further development of music is traced into the symphonic and operatic fields of composition. Prerequisite, Music 13. Two hours per week. *Two semester hours.*

C. HISTORY OF MUSIC

15. *History of Music*

DR. PHILIP

Introduction to choral and instrumental music of the ancient and medieval period. Two hours per week. *Two semester hours.*

16. *History of Music*

DR. PHILIP

A continuation of Music 15. This course deals with the music of the Eighteenth Century, the Romantic period, and the Twentieth Century. Prerequisite, Music 15. Two hours per week. *Two semester hours.*

*17. *Opera and Orchestral Music*

DR. PHILIP

A detailed analysis of symphonic music. Two hours per week. *Two semester hours.*

*18. *Opera and Orchestral Music*

DR. PHILIP

A detailed analysis of proven operatic compositions. Two hours per week. *Two semester hours.*

19. *Music Dramas of Richard Wagner*

DR. PHILIP

An intimate discussion and the detailed analysis of Wagner's works. Two hours per week. *Two semester hours.*

Course 19 alternates with Courses 17, 18.

**This course is not offered in 1963-1964.*

D. MUSICAL ORGANIZATION

21a, 22a. *Band*

Participation in the marching and the concert band. Two hours per week. *Not a credit course.*

21b, 22b. *Band*

Second year. Continuation of first-year work. Two hours per week. *Not a credit course.*

21c, 22c. *Band*

Third year. Continuation of second-year work. Two hours per week. *Not a credit course.*

21d, 22d. *Band*

Fourth year. Continuation of third-year work. Two hours per week. *Not a credit course.*

27a, 28a. *Vocal Ensemble and Methods*

A study of the basic principles of ensemble technique, vocal characteristics, and various types of voices. Discussion and study of the musical literature of the different periods. Practical application of principles studied as well as participation with the Ursinus Meistersingers in public concerts. Two hours per week. *Not a credit course but a prerequisite for Music 27b, 28b.*

27b, 28b. *Vocal Ensemble and Methods*

Second year. Continuation of first-year work. Two hours per week. Credit of *one semester hour* to be awarded at the conclusion of the year.

27c, 28c. *Vocal Ensemble and Methods*

Third year. Concentration of second-year work. Two hours per week. Credit of *one semester hour* to be awarded at conclusion of the year.

27d, 28d. *Vocal Ensemble and Methods*

Fourth year. Continuation of third-year work. Two hours per week. *Not a credit course.*

Not more than twelve semester hours in Music may be counted toward graduation.

PHILOSOPHY

PROFESSOR MATTERN

ASSOCIATE PROFESSOR CREAGER

ASSISTANT PROFESSOR DAVID BAKER

The primary aim of the Department is to cultivate a sensitivity to criticism, to the weighing of evidence, the drawing of inferences, and the becoming aware of latent assumptions.

The secondary aim is to have the student read some of the writings of the philosophers so as to see for himself how philosophical problems spring from common sense opinions. It is hoped that such training may better enable the student to integrate the knowledge he has acquired in other departments.

One three-semester-hour course in Philosophy is required of every student for graduation.

Courses in Philosophy are open to third-year and fourth-year students, with the exception of Course 6. Course 6 is open also for second-year students.

Courses 5 and 6 are designed for students who do not plan to elect advanced courses in Philosophy.

1. *Introduction to Philosophy*

DR. MATTERN

A preliminary course designed to give to the student orientation with reference to the field and problems of philosophy. Three hours per week. *Three semester hours.*

2. *Modern Philosophical Problems*

DR. MATTERN

This course is continuous with Course 1, but is a more intensive study of certain problems outlined in Course 1. Prerequisite, Course 1. Three hours per week. *Three semester hours.*

3. *History of Ancient and Medieval Philosophy*

DR. MATTERN

This course is designed to assist the student in his interpretation of modern thought-currents by means of a history of the evolution of reflective thought from Thales to Descartes. Three hours per week. *Three semester hours.*

4. *History of Modern Philosophy*

DR. MATTERN

This course is a continuation of Course 3, beginning with Descartes and tracing the modern development to present philosophical tendencies. Prerequisite, Course 3. Three hours per week. *Three semester hours.*

5. *Ethics*

DR. MATTERN

A study of the principles of moral judgment, with exposition and criticism of the more important theories concerning the basis of distinction between right and wrong conduct; the various problems of theoretical and practical ethics. Papers by students. Three hours per week. *Three semester hours.*

6. *Logic*

DR. MATTERN

A study of the guiding principles involved in correct thinking; the use of terms; classification; the nature of deductive inference with special reference to fallacious forms of reasoning as they receive expression in daily life; the canons of inductive inference; the basic concepts in scientific method. Three hours per week. *Three semester hours.* Course 6 is open to second-year students.

7. *Philosophy of Religion*

DR. CREAGER, DR. DAVID BAKER

A philosophical study of religious beliefs and practices in order to ascertain the nature and value of religion. Particular attention is given to questions involving the nature and reality of God, the problem of evil and suffering, free will, and immortality. Prerequisite, third-year standing. *Offered in both terms.* Three hours per week. *Three semester hours.*

PHYSICAL EDUCATION

See under *Health and Physical Education.*

PHYSICS

PROFESSOR HEILEMANN

ASSOCIATE PROFESSOR SNYDER

ASSISTANT PROFESSOR MARSTELLER

The courses in Physics are designed to furnish the student with a groundwork of as much of the material of physics as time will permit. Stress is laid upon methods of analysis and presentation of ideas. It is hoped in this way to make the student conversant with the methods of Physics, to develop in him the ability to study independently and to transmit his ideas to others.

Students majoring in Physics must take the following courses: Physics 1, 2, 3, 4, 5, 6, 7, 8; Mathematics 1a, 2a, 3, 4, 5, 6, 7, 9, 10, 21; Chemistry 101, 102.

Students majoring in Physics who are preparing to teach in secondary schools may substitute courses in Education for the following courses: Physics 7, 8; Mathematics 21.

1. *General Physics*

DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER

Elementary mechanics and heat. Physics is presented not only as a science having practical application to everyday life, but as an example in itself of general scientific method. Prerequisite, Mathematics 1, 2, or high-school trigonometry and a satisfactory rating in the Mathematical Aptitude section of the CEEB test or in some test of a similar nature. Although not a requirement, Mathematics 5 and 6 are strongly urged, to be pursued concurrently if not already completed. Three hours lecture and three hours laboratory per week. *Four semester hours.*

2. *General Physics*

DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER

Elementary sound, light, electricity and magnetism. Prerequisite, Physics 1. Three hours lecture and three hours laboratory per week. *Four semester hours.*

Admission to advanced courses depends upon the quality of work done in the elementary course.

Students intending to elect any of the advanced courses are asked to confer with the instructor during the year prior to that in which the course is to be taken, in order that a satisfactory schedule may be arranged.

3. *Mechanics: Statics and Dynamics*

DR. HEILEMANN

Plans and space force systems; concurrent forces; moments; center of gravity; friction; motion; curvilinear motion; projectiles; D'Alembert's Principle; moment of inertia; equilibrium of a rigid body; kinematics; Newton's Laws; work and energy; harmonic motion rotation about a fixed axis; torsion pendulum; compound pendulum; coupled systems. Prerequisite, Mathematics 5 and 6. Three hours lecture and three hours laboratory per week. *Four semester hours.*

4. *Electricity and Magnetism*

DR. SNYDER

Gauss's Theorem; potential; capacity; electric and magnet circuit; Kirchhoff's Laws; inductance; alternating currents; electrical machinery; elements of electronics. Prerequisite, Mathematics 5 and 6. Three hours lecture and three hours laboratory per week. *Four semester hours.*

5. *Optics*

MR. MARSTELLER

Image formation systems of lenses and mirrors; dispersion; spectra; interference and diffraction; polarization; origin of radiation; effects of radiation; applications. Three hours of lecture and three hours laboratory per week. *Four semester hours.*

6. *Sound*

DR. HEILEMANN

The nature of sound, the physical basis of music, speech, and hearing; acoustics of buildings; methods of sound transmission and reproduction, and study of distortion; diffraction and interference; applications. Three hours lecture and three hours laboratory per week. *Four semester hours.*

7. *Modern Physics*

DR. SNYDER

The elementary charged particles; electromagnetic radiation; waves and particles; elementary theory of the hydrogen atom; atomic spectra and electron distribution; natural radioactivity; nuclear disintegration; nuclear energy. Prerequisite, Mathematics 5 and 6. Three hours per week. *Three semester hours.*

7a. *Laboratory in Modern Physics*

DR. SNYDER

Laboratory work (optional) for Course 7. Three hours per week. *One semester hour.*

8. *Modern Physics*

DR. SNYDER

Continuation of Course 7. Three hours per week. *Three semester hours.*

8a. *Laboratory in Modern Physics*

DR. SNYDER

Laboratory work (optional) for Course 8. Three hours per week. *One semester hour.*

9. *Special Topics*

DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER

Readings and laboratory work with conferences. The student, having chosen some field in which he is interested, is expected to become familiar with the special instruments and methods of measurement used in that field. Only students capable of independent work may elect this course. Prerequisite, Mathematics 5 and 6 and two years of college physics. *Credit according to work done.*

10. *Special Topics*

DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER

Continuation of Course 9. *Credit according to work done.*

11. *Astronomy*

MR. MARSTELLER

Facts and theories concerning the appearance, dimensions, notions, and interrelations of celestial bodies. Prerequisite, Mathematics 1 and 2 or its equivalent and some knowledge of physics. Three hours per week. *Three semester hours.*

12. *Astronomy*

MR. MARSTELLER

Continuation of Course 11. Three hours per week. *Three semester hours.*

14. *Alternating Currents*

DR. SNYDER

Capacitive and self-inductive circuits; mutual induction; the alternating-current circuit; alternating-current power and power factor; divided circuits; application of complex numbers; electro-magnetic waves. Prerequisites, Physics 4 and Mathematics 5 and 6. Three hours per week. *Three semester hours.*

POLITICAL SCIENCE

PROFESSOR F. H. MILLER

PROFESSOR PANCOAST

ASSOCIATE PROFESSOR ZUCKER

The objectives of the Department of Political Science with relation to the general student are:

- (1) To help the student attain an appreciation of both the theory and the functioning of politics.
- (2) To aid the student in developing the faculty of critical thinking and objective attitudes.
- (3) To teach the student those values that sustain faith in freedom.

The professional objectives are:

- (1) To prepare students for graduate work in political science and the law.
- (2) To prepare students for the examinations for both the domestic civil service and the foreign service.

In addition to History 1-2 and Political Science 1-2, which are required for graduation under the general college requirements, students majoring in Political Science must take an additional sixteen (16) hours of Political Science (Political Science 5, 6 and ten elective hours); History 13-14; Economics 3,4; Sociology 1-2.

It is recommended that Political Science 1-2 be taken in the first year, Political Science 5, 6 and Economics 3,4 in the second year, and History 13-14 in the third year.

1. *American Government*

DR. PANCOAST, DR. ZUCKER

An analysis of the structure and functions of American national and state governments. Three hours per week. *Three semester hours.*

2. *American Government*

DR. PANCOAST, DR. ZUCKER

Continuation of Course 1. Three hours per week. *Three semester hours.*

3. *Municipal Government and Administration*

DR. PANCOAST

The legal power and position of the city in our political system. Thorough consideration of forms and activities of city government. Three hours per week. *Three semester hours.*

4. *Political Parties*

DR. PANCOAST

Both structural description and functional analysis of American political parties. The organization, work, leaders, and place of political parties in our democracy are considered at length. Three hours per week. *Three semester hours.*

5. *Comparative Government*

DR. MILLER

A detailed comparison of the Cabinet and Presidential systems, as exemplified by England and the United States. Three hours per week. *Three semester hours.*

6. *Comparative Government*

DR. MILLER

The study is extended to other representative governments, including France, Germany, Italy, Russia and Japan. Three hours per week. *Three semester hours.*

7. *Political Theory*

DR. ZUCKER

Significant political ideals, forces, and concepts from Plato to the present. Three hours per week. *Three semester hours.*

8. *Constitutional Law*

DR. PANCOAST

Historical backgrounds and principles formulated by the United States Supreme Court receive special emphasis. In addition to a textbook, extensive use is made of case studies. Three hours per week. *Three semester hours.*

9. *Public Administration*

DR. PANCOAST

A survey of the field of public administration, emphasizing administrative organization, fiscal management, and personnel management. The administrative process is considered as a unit encompassing federal, state, and local administration. Three hours per week. *Three semester hours.*

10. *American Political Theory*

DR. ZUCKER

Main currents in American political thought from the seventeenth century to the present. Three hours per week. *Three semester hours.*

†11. *Seminar in Political Science*

DR. MILLER

Selected topics in international organization and international relations. Two hours per week. *Two semester hours.*

†12. *Seminar in Political Science*

DR. MILLER

Continuation of Seminar in Political Science 11. Two hours per week. *Two semester hours.*

*†13. *Seminar in Political Science*

DR. MILLER

International Law. The case-study method. Two hours per week. *Two semester hours.*

*†14. *Seminar in Political Science*

DR. MILLER

Continuation of Seminar in Political Science 13. Two hours per week. *Two semester hours.*

Courses 11, 12 alternates with Courses 13, 14.

PSYCHOLOGY

PROFESSOR FLETCHER

MR. KIRKPATRICK

The Department of Psychology is guided in its offerings and activities by two sets of objectives: (1) For the student majoring in areas other than Psychology, the introductory course for all, and Abnormal Psychology and Mental Hygiene for many, endeavor to show the growth of modern psychology and an understanding of adjustments used in maintaining mental health; and (2) an attempt is made to present a composite view of the main phases of present-day psychology, which is based on a broad foundation in social science and the biological sciences.

Students majoring in Psychology must take the following courses: Biology 3, 21, 22; Mathematics 1-2, 13-14; Economics 3-4; Political Science 1-2 and Sociology 1-2; Psychology 1, 4, 8, 9, 10, 12, 14, 31, and 32. Students who plan to continue the study of Psychology at the graduate level are strongly urged to include in their schedules Mathematics 5-6; Biology 17-18; Philosophy 3-4 and Physics 1-2.

*This course is not offered in 1963-1964.

†Open only to third-year and fourth-year students.

1. Elementary Psychology

DR. FLETCHER, MR. KIRKPATRICK

An introductory study of mental life and accompanying types of human behavior. Three hours per week. *Three semester hours.*

Course 1 must be taken during the first semester of the second year by all students preparing to become teachers.

4. Social Psychology

MR. KIRKPATRICK

A study of group action and of the group influences by which the individual is surrounded; tradition, custom, public opinion, and other psychological and social forces which affect individual judgment and action. Three hours per week. *Three semester hours. Permission of the instructor is required for admission to the course.*

8. Mental Health and Abnormal Psychology

DR. FLETCHER

The problem of mental health is treated under the following topics: The dynamics of human behavior, normal and abnormal reactions to frustration and conflict. Psychological, organic, and social causes of poor mental health. The roles played by the home, the school, and society in mental health. Additional topics include psychoneuroses and functional psychoses, epilepsy, drug addiction, and alcoholism. Methods of prevention and treatment of mental illness are discussed. This course is given from the point of view of preventive mental hygiene. Three hours per week. *Three semester hours.*

9. Educational and Psychological Tests and Measurements

DR. FLETCHER

An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite, Courses 31, 32. Three hours per week. *Three semester hours. (The same course as Education 9.)*

10. Elementary Experimental Psychology

MR. KIRKPATRICK

This course is designed to acquaint the student with laboratory techniques used in psychology. Limited to and required of all majors in psychology. Lectures, demonstrations, individual experiments and the preparation of scientific reports. Two hours lecture and four hours laboratory. *Four semester hours.*

12. Psychology in Industry

DR. FLETCHER

This course deals with the application of psychological techniques and principles to the problems of industry. Emphasis is given to individual differences, aptitudes and skills, job evaluation, merit rating, work methods, training programs, fatigue, accident control, safety education, incentives, employee attitudes, morale, the interview and related employment methods. Three hours per week. *Three semester hours. Permission of the instructor is required for admission to the course.*

14. Seminar in Psychology

DR. FLETCHER

A course designed to acquaint the student with current trends in theoretical and applied psychology. Emphasis will be given to the preparation and presentation of papers on selected topics which will vary from year to year. Open only to fourth-year students majoring in psychology. One hour per week. *One semester hour.*

31. Educational Psychology—Growth and Development DR. FLETCHER, MR. KIRKPATRICK

The nature of growth. The dynamics of personality development. The characteristics

of physical, mental, emotional, and social growth from the prenatal period until old age. The development of attitudes, interests, and values. The ideal of an integrated personality. (*The same course as Education 31.*) Three hours per week. *Three semester hours.*

32. *Educational Psychology—Learning and Teaching* DR. FLETCHER, MR. KIRKPATRICK

The role of the teacher as a professional person. The basic learning theory needed by teachers. The nature and conditions of learning. The development of learning units. Individual differences in mental ability and their educational implications. Mental hygiene in the classroom. (*The same course as Education 32.*) Three hours per week. *Three semester hours.*

PUBLIC SPEAKING

ASSISTANT PROFESSOR KERSHNER

3. *Public Speaking*

DR. KERSHNER

Composition and delivery of various types of speeches, with group criticism and discussion. The class will be organized and conducted according to the rules of parliamentary procedure. Prerequisite, English Composition 1, 2. Two hours per week. *Two semester hours.*

4. *Public Speaking*

DR. KERSHNER

Continuation of Course 3. Prerequisite, Public Speaking 3. Two hours per week. *Two semester hours.*

5. *Debating*

DR. KERSHNER

This course is organized for both beginners and advanced students who are interested in debating in intramural and intercollegiate tournaments. Open to third-year students who have completed Public Speaking 3 and 4, or who have been members of the Debating Club for at least one year. The course may be repeated for credit in the senior year. One hour per week. *One semester hour.*

6. *Debating*

DR. KERSHNER

Continuation of Course 5. One hour per week. *One semester hour.*

Note: All students in the College may participate in the activities of the extra-curricular debating society without being enrolled in Courses 5 and 6.

RELIGION

ASSOCIATE PROFESSOR CREAGER

PROFESSOR DONALD BAKER

PROFESSOR ARMSTRONG

PROFESSOR MATTERN

ASSISTANT PROFESSOR SCHELLHASE

ASSISTANT PROFESSOR DAVID BAKER

The aim of the Department of Religion is to give opportunity for a scholarly and reverent study of religion, centering attention primarily upon the Hebrew-Christian tradition. The courses in the English Bible are considered basic to a liberal education. Philosophy of Religion, Church History, and Christian Classics are courses offered to afford opportunity for students to deepen their interest in the "heart truths" of religion. The department directs a religious program, led by students, which includes

worship, service projects, counseling and discussion. The unique nature of our College lays responsibility upon every member of the faculty, administration, and student body to lend support to these objectives.

1. *Introduction to the Literature of the Bible: Old Testament* MR. SCHELLHASE

An appreciative and historical study of the Bible, with a view to discovering its origin, nature, and significance in the life of today. Three hours per week. *Three semester hours.*

2. *Introduction to the Literature of the Bible: New Testament* MR. SCHELLHASE

Three hours per week. *Three semester hours.*

*4. *Christian Classics* DR. CREAGER

Readings in the classics of Christian literature including the writings of such men as Augustine, St. Francis of Assisi, Thomas à Kempis, Fox, Law, Baxter, Woolman, and Temple. Three hours per week. *Three semester hours. (This course alternates in the Spring Term with Religion 6.)*

6. *History of the Christian Church* DR. CREAGER

A study of the development of the Christian church from the apostolic period to modern times, with a view to understanding the nature and extent of its contribution to society. Three hours per week. *Three semester hours. (This course alternates in the Spring Term with Religion 4.)*

The following related courses are recommended to students interested in the study of religion.

HISTORY

104. *The Age of the Reformation* DR. ARMSTRONG

PHILOSOPHY

5. *Ethics* DR. MATTERN

Three hours per week. *Three semester hours.*

PHILOSOPHY

7. *Philosophy of Religion* DR. CREAGER, DR. DAVID BAKER

Three hours per week. *Three semester hours.*

GREEK

8. *New Testament Greek* DR. DAVID BAKER

Three hours per week. *Three semester hours.* DR. DONALD BAKER

HISTORY

132. *Seminar in Church History* DR. ARMSTRONG

Two consecutive hours per week. *Two semester hours. Students intending to select this course are asked to confer with the instructor.*

**This course is not offered in the Spring Term of 1964.*

ROMANCE LANGUAGES

PROFESSOR GARRETT
ASSOCIATE PROFESSOR VORRATH

PROFESSOR R. DOANE
ASSOCIATE PROFESSOR C. DOANE

MR. GARCÍA

Reading ability and an understanding of the foreign culture comprise the scope of the first two year's work.

Students who advance beyond courses numbered 4 receive further instruction in conversation, composition, and the literatures of the respective languages. The goal of this teaching is to develop faculties of critical and esthetic judgment.

FRENCH

French majors must meet the following requirements:

French 5, 6, 7, 15, 16; History 3, 4 or 5, 6. It is recommended that Latin 1, 2, 3, 4 (or equivalent, i.e., four years of Latin in secondary school) be taken.

One of the following courses: French 7, 8, 10;

Two of the following courses: French 11, 12, 13, 14.

1. *Elementary French*

DR. C. DOANE

Three hours per week. *Three semester hours.*

2. *Elementary French*

DR. C. DOANE

Prerequisite: French 1. Three hours per week. *Three semester hours.*

3. *Intermediate French*

DR. GARRETT, DR. VORRATH, DR. R. DOANE

Prerequisite: French 2 or equivalent (i.e., satisfactory completion of two years of French in secondary school). Three hours per week. *Three semester hours.*

4. *Intermediate French*

DR. GARRETT, DR. VORRATH, DR. R. DOANE

Prerequisite: French 3. Three hours per week. *Three semester hours.*

5. *Survey of French Civilization and Literature*

DR. GARRETT

The development of French life, arts and literature from the Middle Ages to the Revolution. Tapes and slides showing French cultural life from origin to modern time. Three hours per week. *Three semester hours.*

6. *Survey of French Civilization and Literature*

DR. GARRETT

A continuation of Course 5; from 1789 to the present. Three hours per week. *Three semester hours.*

*7. *Rabelais, the Pleiade, Montaigne*

DR. GARRETT

Two hours per week. *Two semester hours.*

*8. *Corneille, Racine*

DR. GARRETT

Two hours per week. *Two semester hours.*

*9. *Moliere*

DR. GARRETT

Two hours per week. *Two semester hours.*

**This course is not offered in 1963-1964.*

- *10. *Voltaire, Rousseau* DR. GARRETT
Two hours per week. *Two semester hours.*
Courses 7 and 8 alternate with Courses 9 and 10.
- *11. *Seminar in French Literature 1800-1860* DR. GARRETT
Three hours per week. *Three semester hours.*
- *12. *Seminar in French Literature* DR. GARRETT
Prerequisite: French 11. Three hours per week. *Three semester hours.*
- *13. *Seminar in French Literature since 1860* DR. GARRETT
Three hours per week. *Three semester hours.*
- *14. *Seminar in French Literature* DR. GARRETT
Prerequisite: French 13. Three hours per week. *Three semester hours.*
Courses 11 and 12 alternate with Courses 13 and 14.
- *15. *Advanced Grammar* DR. C. DOANE
Two hours per week. *Two semester hours.*
16. *Oral French* DR. C. DOANE
Two hours per week and additional laboratory work. *Two semester hours.*
21. *Conversation* DR. C. DOANE
Prerequisite: French 16 and permission of the instructor. Two hours per week. *Two semester hours.*

SPANISH

Spanish majors must meet the following requirements:

Six hours of advanced Spanish composition and conversation and fourteen hours of Spanish literature (Students planning to teach shall take three hours of advanced grammar in second semester of the senior year and will be permitted to take only eleven hours of literature).

1. *Elementary Spanish* DR. VORRATH, MR. GARCÍA
Three hours per week. *Three semester hours.*
2. *Elementary Spanish* DR. VORRATH, MR. GARCÍA
Prerequisite: Spanish 1. Three hours per week. *Three semester hours.*
3. *Intermediate Spanish* DR. VORRATH, MR. GARCÍA
Prerequisite: Spanish 2 or equivalent (i.e., satisfactory completion of two years of Spanish in secondary school). Three hours per week. *Three semester hours.*
4. *Intermediate Spanish* DR. VORRATH, MR. GARCÍA
Prerequisite: Spanish 3. Three hours per week. *Three semester hours.*
- *9. *Spanish-American Literature* DR. VORRATH
Prerequisite, Spanish 14 or permission of the instructor. Two hours per week. *Two semester hours.*

*This course is not offered in 1963-1964.

*10. *Spanish-American Literature*

DR. VORRATH

Prerequisite, Spanish 14 or permission of the instructor. Two hours per week. *Two semester hours.*

Courses 9 and 10 alternate with Courses 125 and 126.

13. *Advanced Composition and Conversation*

MR. GARCÍA

Three hours per week. *Three semester hours.*

14. *Advanced Composition and Conversation*

MR. GARCÍA

Three hours per week. *Three semester hours.*

Courses 5 and 6 alternate with Courses 13 and 14.

121. *Spanish Theatre Since 1800*

DR. VORRATH

Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. *Three semester hours.*

122. *Spanish Prose Since 1800*

DR. VORRATH

Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. *Three semester hours.*

*123. *Theatre of the Siglo de Oro*

DR. VORRATH

Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. *Three semester hours.*

*124. *Prose of the Siglo de Oro*

DR. VORRATH

Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. *Three semester hours.*

Courses 123 and 124 alternate with Courses 121 and 122.

125. *Spanish Lyric Poetry*

DR. VORRATH

Prerequisite, Spanish 14 or permission of the instructor. Two hours per week. *Two semester hours.*

126. *Medieval Spanish Literature*

DR. VORRATH

Prerequisite, Spanish 9, 10, 121, 122, 123, 124, 125, or permission of the instructor. Two hours per week. *Two semester hours.*

128. *Advanced Grammar*

DR. VORRATH

Intended primarily for Spanish majors who plan to teach. Prerequisites, Spanish 14 and at least one year of a Spanish literature course. Three hours per week. *Three semester hours.*

RUSSIAN1. *Elementary Russian*

DR. C. DOANE

Grammar, conversation, reading. Three hours per week. *Three semester hours.*

*This course is not offered in 1963-1964.

2. *Elementary Russian*

DR. C. DOANE

Continuation of Russian 1. Emphasis upon reading and conversation. Three hours per week. *Three semester hours.*

3. *Intermediate Russian*

DR. C. DOANE

Grammar review, reading, conversation. Three hours per week. *Three semester hours.*

4. *Intermediate Russian*

DR. C. DOANE

Continuation of Russian 3. Emphasis upon reading and conversation. Three hours per week. *Three semester hours.*

SOCIOLOGY

DR. J. A. MILLER

1. *Introduction to Sociology*

DR. J. A. MILLER

A course designed to give the student a more scientific understanding of man's social nature and of the social world in which he lives. In addition to fundamental concepts and theories particular attention is focused on problems arising from race relations and personality disorganization. *Not open to freshmen.* Three hours per week. *Three semester hours.*

2. *Introduction to Sociology*

DR. J. A. MILLER

A continuation of Sociology 1. Problems to which particular attention is given include urbanization, public opinion and propaganda, marriage and the family, and crime and delinquency.

Prerequisite, Course 1. Three hours per week. *Three semester hours.*

SPANISH

See under *Romance Languages*

SWEDISH

See under *Germanic Languages*

DEPARTMENTAL REQUIREMENTS

CLASSICS (B.A.)

Adviser—PROFESSOR BAKER

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Pol. Sci. 1, 2 or	Philosophy 3
Hist. 1, 2 6	Eng. Lit. 3, 4 4	Econ. 3, 4 6	Greek 7 3
Greek 1, 2 6	Science 6	Latin or Greek 6	Latin or Greek 3
Latin 1, 2 or 3, 4	Psych. 1 3	Electives 18	Electives 21
or 5, 6 6	Greek 3, 4 6		
Elective 6	Latin 6		
Phys. Ed. 101, 102 —	Electives 3		
30	30	30	30

ECONOMICS AND BUSINESS ADMINISTRATION (B.A.)

Adviser—PROFESSOR SHEARER

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Psych. 1 3	Philosophy 3
Hist. 1, 2 6	Eng. Lit. 3, 4 4	Pol. Sci. 1, 2 6	Econ. 9
Foreign Language 6	(or equiv.)	Math. 13, 14 4	(any courses)
Science 6	Foreign Language 3, 4	Econ. 27, 26 6	Electives 18
Econ. 3, 4 6	(if not completed) .. 6	Other Econ. 3	
Phys. Ed. 101, 102 —	Math. 1, 2 6	Electives 8	
	Econ. 21, 16 6		
	Electives 6		
30	30	30	30

ENGLISH (B.A.)

Adviser—PROFESSOR YOST

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Philosophy 3	Eng. Lit. 9, 10 or
Hist. 1, 2 6	Eng. Lit. 3, 4 4	Eng. Lit. 19, 20 or	19, 20 6
Science 6	Eng. Lit. 11, 12 4	9, 10 6	Electives 24
Foreign Language 6	Foreign Language 3, 4	Hist. 13, 14 6	
Econ. 3, 4 or	(if not completed) .. 6	Electives 15	
Pol. Sci. 1, 2 6	Psych. 1 3		
Phys. Ed. 101, 102 —	Hist. 9, 10 or 11, 12 .. 6		
	Electives 5		
30	30	30	30

GERMAN (B.A.)

Adviser—PROFESSOR HARTZELL

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Ger. 5, 6 (if not	Ger. 9, 10 or
Hist. 1, 2 6	Eng. Lit. 3, 4 4	completed) 6	7, 8 4
Science 6	Psych. 1 3	Ger. 7, 8 or 9, 10 4	Ger. 13, 14 or
Ger. 1, 2 or 3, 4 6	Econ. 3, 4 or	Ger. 11, 12 or 13, 14 .. 4	11, 12 4
Other Language 1, 2	Pol. Sci. 1, 2 6	Additional language .. 6	Additional language .. 6
or 3, 4 6	Ger. 3, 4 or 5, 6 6	Electives 10	Philosophy 3
Phys. Ed. 101, 102 —	Other Language 3, 4		Electives 13
	(if not completed) .. 6		
	Electives 3		
30	30	30	30

PSYCHOLOGY (B.S.)

Adviser—PROFESSOR FLETCHER

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Sociology 1, 2 6	Philosophy 3
History 1, 2 6	Eng. Lit. 3, 4 4	Math. 13, 14 4	Psych. 9, 4 6
Foreign Language 6	(or equiv.) 4	Econ. 3, 4 or 6	Psych. 14 1
Bio. 3, 4 6	Foreign Language 3, 4 6	Pol. Sci. 1, 2 6	Psych. 12 3
Econ. 3, 4 or 6	(if not completed) 6	Psych. 31, 32 6	Electives 17
Pol. Sci. 1, 2 6	Math. 1, 2 6	Psych. 10 4	
Phys. Ed. 101, 102 6	Psych. 1, 8 6	Electives 4	
	Bio. 21, 22 5		
	Electives 2		
30	31	30	30

ROMANCE LANGUAGES

FRENCH (B.A.)

Adviser—PROFESSOR HARTZELL

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Econ. 3, 4 or 6	Electives 30
Hist. 1, 2 6	Eng. Lit. 3, 4 4	Pol. Sci. 1, 2 6	
Science 6	Psych. 1 3	Philosophy 3	
Fr. 3a, 4a 6	Fr. 5, 6 6	Hist. 3, 4 or 5, 6 6	
Foreign Language 6	Fr. 9, 10 or 15, 16 4	Fr. 11, 12 or 6	
Phys. Ed. 101, 102 6	Foreign Language 3, 4 6	13, 14 6	
	(if not completed) 6	Fr. 9, 10 or 15, 16 4	
	Electives 5	Electives 5	
30	30	30	30

SPANISH (B.A.)

Adviser—PROFESSOR VORRATH

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Econ. 3, 4 or 6	Spanish 123, 124 or 6
History 1, 2 6	Eng. Lit. 3, 4 4	Pol. Sci. 1, 2 6	121, 122 6
Science 6	Psych. 1 3	Philosophy 3	Electives 24
Spanish 3, 4 6	Spanish 13, 14 6	History 3, 5, or 27 6	
Foreign Language 6	Foreign Language 3, 4 6	and 4 or 6 6	30
Phys. Ed.	(if not completed) 6	Spanish 121, 122 or 6	
	Electives 9	123, 124 6	
		Spanish 125, 126 2	
		9, or 10 2	
		Electives 7	
30	30	30	30

Fourth Year for Teachers

Spanish 123, 124, 121 or 122 3
Spanish 128 3
Electives 24

SCIENCES

BIOLOGY (B.S.)

Adviser—PROFESSOR WAGNER

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Philosophy 3	Bio. 7, 8 or 3
Foreign Language 6	Eng. Lit. 3, 4 4	Psychology 1 3	Bio. 19 (Bio. 20 also recommended) 8 or 4
Hist. 1, 2 or 6	(or equiv.) 4	Pol. Sc. 1, 2 or 6	Bio. 21, 22 or both 5 or 2 3
Chem. 101, 102 6 or 8	Foreign Language 3, 4 6	Ec. 3, 4 6	Bio. 6 (if not pre-professional) 3
Bio. 103, 104 8	(if not completed) 6	Bio. 7, 8 or 3	Bio. 23, 24 Seminar recommended 2
Math. 1, 2 6	Chem. 101, 102 or 8	Bio. 19 (Bio. 20 also recommended) 8 or 4	Bio. 25 or 26 recommended 4
Phys. Ed. 101, 102 6	Hist. 1, 2 8 or 6	Electives 10 to 14	Electives 9 to 15
	Physics 1, 2 8		
	Electives 4 to 10		
32 to 34	30 to 32	30	28 to 31

CHEMISTRY (B.S.)

Adviser—PROFESSOR STURGIS

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Chemistry 9, 10 8	Chemistry 5 3
History 1, 2 6	Eng. Lit. 3, 4 4	Chemistry 3 4	Chemistry 11 4
German 1, 2 or 3, 4 6	Ger. 3, 4 4	Chemistry 4 3	Philosophy 3
Chem. 101, 102 8	(if not completed) 6	Math. 7 3	Electives from advanced
Math. 1, 2 or 5, 6 6	Chemistry 7, 8 8	or	courses as:
Phys. Ed. 101, 102 —	Math. 5, 6 6	Physics 4 4	Chemistry 6 3
	(if not completed) 6	or	Chemistry 12 2
	Physics 1, 2 8	Biology 3, 4 6	Chem. 20 or 21 or 22 1
		Econ. 3, 4 6	Chemistry 30 2
		or	Physics 7, 8 6
		Pol. Sci. 1, 2 6	German 11, 12 4
		Psych. 1 3	
32	34	30-31	28

PHYSICS (B.S.)

Adviser—PROFESSOR HEILEMANN

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Econ. 3, 4 or	Philosophy 3
Foreign Language 6	Eng. Lit. 3, 4 4	Pol. Sci. 1, 2 6	Physics 7, 8 6
Physics 1, 2 8	Foreign Language 3, 4	Psych. 1 3	Physics 7a, 8a 2
Math. 1a, 2a 6	(if not completed) 6	Physics 5, 6 8	Math. 21, 22 6
Math. 3, 4 6	Hist. 1, 2 6	Math. 7 3	Electives 13
Phys. Ed. 101, 102 —	Physics 3, 4 8	Math. 9, 10 6	
	Math. 5, 6 6	Chem. 101, 102 8	
32	32	34	30

SCIENCES (B.S.)

Preparation for Secondary School Teaching in the Sciences

1. CONCENTRATION IN BIOLOGY

Advisers—PROFESSOR WAGNER AND
PROFESSOR MINNICH

First Year	Credits	Second Year	Credits
Chemistry 1, 2 3	3	Biology 103, 104 4	4
Mathematics 1, 2 3	3	Biology 17, 18 2	2
History 1, 2 3	3	or	
English Comp. 1, 2 3	3	Biology 21, 22 3	2
Language 1, 2 or 3, 4 3	3	English Comp. 3, 4 1	1
Phys. Ed. 101, 102 —	—	English Lit. 3, 4 2	2
	15 15	Language 3, 4 3	3
	30	or	
		Pol. Sci. 1, 2 3	3
		or	
		Economics 3, 4 3	3
		Psychology 1 3	3
		Education 2 3	3
		15 or 16	
		14 or 15	
		29 or 31	
Third Year	Credits	Fourth Year	Credits
Biology 17, 18 2	2	Biology 19 4	4
or		Education 5 8	3
Biology 21, 22 3	2	Education 44 6	9
Biology 6 3	3	Electives 6	9
History 16 3	3		
Philosophy 3	3		
Education 31, 32 3	3		
Education 48 3	3		
Electives 3	2		
or			
Electives 5	or		
	15 or 16		14 16
	31-32		30

II. CONCENTRATION IN CHEMISTRY

<i>First Year</i>	<i>Credits</i>
Chemistry 101, 102	4 4
English Comp. 1, 2	3 3
Language 1, 2 or 3, 4	3 3
History 1, 2	3 3
Mathematics 1, 2	3 3
Phys. Ed. 101, 102	- -
	<hr/> 16 16
	32

<i>Third Year</i>	<i>Credits</i>
Chemistry 3	4 4
Economics 3, 4	3 3
or	
Pol. Sci. 1, 2	3 3
Education 31, 32	3 3
Education 48	3 3
Physics 1, 2	4 4
History 16	3 3
	<hr/> 14 16
	30

Advisers—PROFESSOR STURGIS AND
PROFESSOR MINNICH

<i>Second Year</i>	<i>Credits</i>
Biology 3, 4	3 3
Chemistry 7, 8	4 4
Education 2	3 3
English Comp. 3, 4	1 1
English Lit. 3, 4	2 2
Language 3, 4	3 3
or	
Philosophy 6	(3)
and	
Biology 21	(3)
Psych. 1	3 3
	<hr/> 16 16
	32

<i>Fourth Year</i>	<i>Credits</i>
Biology 22	2 2
Education 5	8 8
Physics 11, 12	3 3
Education 44	3 3
Hist. 16 (if not	(3)
taken in third year)	
Philosophy 7 (if	(3)
Phil. 6 is not taken	
in second year)	
Electives	3 3 to 6
	<hr/> 14 14
	28

III. CONCENTRATION IN PHYSICS

<i>First Year</i>	<i>Credits</i>
English Comp. 1, 2	3 3
Language 1, 2 or 3, 4	3 3
Phys. Ed. 101, 102	- -
Physics 1, 2	4 4
Mathematics 1a, 2a	3 3
Mathematics 3, 4	3 3
	<hr/> 16 16
	32

<i>Third Year</i>	<i>Credits</i>
Economics 3, 4	3 3
or	
Pol. Sci. 1, 2	3 3
Education 31, 32	3 3
Education 48	3 3
Physics 7, 8	3 3
Mathematics 9, 10	3 3
Electives	3 3
	<hr/> 15 16
	30

Advisers—PROFESSOR HEILEMANN AND
PROFESSOR MINNICH

<i>Second Year</i>	<i>Credits</i>
English Comp. 3, 4	1 1
English Lit. 3, 4	2 2
Language 3, 4	3 3
or	
History 1, 2	3 3
Education 2	3 3
Psychology 1	3 3
Physics 3, 4	4 4
Mathematics 5, 6	3 3
	<hr/> 16 16

<i>Fourth Year</i>	<i>Credits</i>
Philosophy 6	3 3
History 1, 2	3 3
Education 9 (N. J.)	3 3
Education 5	8 8
Chemistry 101, 102	4 4
Education 44	3 3
	<hr/> 15 16
	31

FIVE YEAR COMBINED LIBERAL ARTS — ENGINEERING PROGRAM

URSINUS COLLEGE (B.A.) THE UNIVERSITY OF PENNSYLVANIA OR OTHER
ENGINEERING SCHOOLS (B.S. in Eng.)

Adviser—PROFESSOR HEILEMANN

PLAN I FOR ELECTRICAL, CIVIL OR MECHANICAL ENGINEERS

<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth and Fifth Years</i>
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Hist. 1, 2 6	to be completed at the University of Pennsylvania or other engineering schools.
Foreign Language 3, 4. 6	Eng. Lit. 3, 4 4	Econ. 3, 4 6	
Chem. 1, 2 6	Psych. 1 3	Physics 7, 14 8	
Physics 1, 2 8	Philosophy 3	Math. 7 3	
Math. 1a 3	Physics 3, 4 8	Math. 9, 10 6	
Math. 3, 4 6	Drafting 3	Electives 6	
Phys. Ed. 101, 102 —	Descrp. Geom. 3		
	Math. 5, 6 6		
35	32	35	

PLAN II FOR CHEMICAL OR METALLURGICAL ENGINEERS

<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth and Fifth Years</i>
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Philosophy 3	to be completed at the University of Pennsylvania or other engineering schools.
Chem. 101, 102 8	Eng. Lit. 3, 4 4	Psych. 1 3	
Foreign Language 3, 4. 6	Hist. 1, 2 6	Econ. 3, 4 6	
Math. 1a 3	Chem. 103 4	Chem. 105 4	
Math. 3, 4 6	Chem. 104 4	Physics 3, 4 8	
Electives 3	Physics 1, 2 8	Math. 7 3	
Phys. Ed. 101, 102 —	Drafting 3	Math. 9, 10 6	
	Math. 5, 6 6	Electives 3	
32	37	36	

STUDENTS WHO WISH TO PREPARE FOR TEACHING, THE MINISTRY, OR FOR
ADMISSION TO PROFESSIONAL SCHOOLS OF MEDICINE, DENTISTRY, VETER-
INARY MEDICINE, LAW, OR NURSING SHOULD REFER TO PAGES 36 TO 38
WHERE SUGGESTED MAJORS ARE INDICATED.



PRIZES, HONORS, DEGREES

AWARDED IN 1962

The John C. Boyer Memorial Prize — Henry M. Bates, '64
The J. Harold Brownback Prize — Craig R. Reckard, '62
The Cub and Key Scholarship — Carl Frederick Peek, '65
The George Ditter Prize — Susan J. Schnabel, '62
The Duttera Prize — Jeanette F. Knoll, '62
The Ehret Prize — Richard A. Dean, '63
The Edwin M. Fogel Prize — Elmeretta J. Bottiglier, '64
The Philip H. Fogel Memorial Prize — Kay R. Sullivan, '62
The Ronald C. Kichline Athletic Prize — Richard S. Allebach, '62
The Elizabeth Rockefeller McCain Prize — Sam N. Stayer, '64
The Paisley Prizes — Kathryn A. Draeger, '62; Stuart R. Grant, '62
The Peters Prize — John G. Hope, '62
The Ellen Beaver Schlaybach Memorial Prize — Barbara Jean Eichel Schultz, '62
The Robert Trucksess Prize — Walter K. Swartzkopf, Jr., '62
The Ursinus Women's Club Prize — Lynne E. Crosley, '62
The Elizabeth B. White Prize — Marcia A. Kressler, '62
The Whitian Prize — Jean Estella Hunter, '65
The American Chemical Society Award — Barbara Jean Eichel Schultz, '62

COMMENCEMENT HONORS

Valedictorian: William Ray Mast

Salutatorian: Arnold Steven Rosenbaum

MAGNA CUM LAUDE: Byron Stuart Hurwitz
William Ray Mast
Arnold Steven Rosenbaum
Barbara Jean Eichel Schultz

CUM LAUDE: Marcia Anne Kressler
Craig Reginald Reckard
Charlotte Jean Vandermark

DEPARTMENTAL HONORS

Chemistry: Barbara Jean Eichel Schultz
William Ray Mast

English: Benjamin Franklin Fisher

Psychology: David Mills Clayton
Laurence Richard Test

DEGREES, 1962

DOCTOR OF DIVINITY (Honorary)

Walter King Beattie
Andre Rocco deVilliers

Frederick Nelsen Schlegel
Roy Clark Snyder

DOCTOR OF HUMANE LETTERS (Honorary)

John Anthony Brown, Jr.

James Iley McCord

DOCTOR OF LAWS (Honorary)

Ben Moreell

Theodore Raymond Schwalm

CERTIFICATES OF PROFICIENCY

Eugene Francis Catagnus
John George Stevens

ASSOCIATE IN BUSINESS ADMINISTRATION

Warren Eugene Bertolet
Daniel Gray Daywalt
George Arthur Detwiler

Merrill Francis Erskine
Richard Ray Harp
Kenneth Lorenz Prickitt

BACHELOR OF ARTS

Alexander Robert Aitken
Sarah Ann Bastow
Brenda Lynne Berlitz
Helen Eugenia Blum
Barbara Stevens Bogel
James Cartey Bowman
Winfield Conrad Boyer
William Ronald Briggs, Jr.
Margaret Anna Brimfield
Judith Lee Byrnes
Jon Keith Clemens
Douglas Lee Connor
Susanne Knowles Cramer
Lorraine Dawn Culiberg
William Owen Daggett, Jr.
Richard August Daniels
Mary Elizabeth Dassler
Marcella Ann DeStefano
Nancy Kathryn Divelbiss
Carole Dorothea Drechsler
Barbara Anne Durnall
Nannette Joan Easter
Bernice Marcia Facchinetti
William Carl Faussett, Jr.
Robert Constantino Fernandez
Benjamin Franklin Fisher
Robert Walker Fleming, Jr.
Bruce Fredric Foster
Leanne Marie Fowler
Charles Edwin Fox
Howard Earle Friend, Jr.
Phyllis Webster Furst
Lois Ann Gillroy
Gayle Suzanne Gordinier
Douglas John Harper
Judith Myers Hearne
Robert Willard Hoffert
John Garland Hope
Arthur Grater Hunsberger
Michael Bradley Hurlburt
Robert Irwin Jones
Virginia Ann Kaiser
Elisabeth Tiu Keps
Michael King
Judd Kingdon Kinzley, Jr.

Florence Jeanette Knoll
Lawrence Lee Koch
Edward Charles Kottcamp, III
Marcia Anne Kressler
Diana Elizabeth Kyak
Anita Lynn LaNoce
Harold Wallace Leight
Charles Robert Leidenberger, Jr.
Jo-Ann Lewis
Margaret Ann Lewis
Samuel Darrow Lord
Peter David Mackey
Frances Marian March
George Rhoads Martin
Beryl Martha Matthews
Marilyn Joyce Maurer
Robert Alan McClellan
Carol Sue McGoldrick
John Edward McLaughlin
Flora Andrea McQueen
Joseph Charles Micale
Ethel Mae Miller
Winifred Laurann Miller
James Allen Minnich, Jr.
Gerold Yoshiaki Morita
Anita Morrell
Robert Ayres Mulford, Jr.
Margaret Selgrath Myers
Judith Ann Nelson
George Nonemaker, Jr.
Margaret Ann Oppenheimer
Nancy Jane MacClary Racz
Susan Diane Reider
Deanna Jean Reisse
Elmer George Reiter
Stephen James Reso
Lois Joy Rossi
Martha Harriet Roth
Robert Frederick Schad
Susan Jane Schnabel
Judith Lee Schultz
Vernon Dale Schurr, Jr.
Richard Norman Shollenberger
Carole Rose Smith
Philip Wayne Steeley

Walter Kalt Swartzkopf, Jr.
 John Ralph Swinton
 Margaret Anne Thomas
 Walter Ellsworth Trout, Jr.
 Charlotte Jean Vandermark
 Mai Anne Vilms
 Patricia Ann Vogel

Martin John Waldenberger
 Carolyn Ruth Weller
 John William Wertz
 Roger Vaughn Wiest
 Bernard Paxton Wilder, III
 Thomas Alan Wise

BACHELOR OF SCIENCE

Richard S. Allebach, 2d
 Robert James Allen
 Arlene Elizabeth Andrews
 Ruth Anne Barker
 Robert Eugene Bennett, Jr.
 Georgia Alexander Billger
 John Samuel Stephen Bobb
 Earl William Boehm
 Jay Bruce Bosniak
 Maynard Eiseman Boyd
 Carolyn Gail Boyer
 Dorothea Jane Pengelly Brigman
 Robert Joel Broselow
 Susanne Rose Ether Bryan
 Gloria Eleanor Burgoon
 Robert Spruill Cadman
 David Mills Clayton
 Curtis Bert Conn
 Neville Perry Cook
 Lynn Golt Cranmer
 Carolyn Louise Cressman
 Lynne Elizabeth Crosley
 William Edward Kelly Davis
 Kathryn Ann Draeger
 Ruth Ann Fatscher
 Georgia Dorothy Ferrell
 Barry Sherwood Francis
 Elizabeth Ann Drake Friend
 Margaret Joan Fry
 Catherine George Gazonas
 Charles William Gest
 Dorothy Sanders Ginter
 Stuart Russell Grant
 Calvin Leon Griffin
 Alice Elizabeth Hamblin
 Lore Elizabeth Hamilton
 John Mehnert Heilemann
 Donald John Henry
 Robert Lawrence Hohn
 Sandra Kay Holl
 William Lawrence Horrocks
 Dalton Ray Hunkins
 Byron Stuart Hurwitz
 Gerda Julia Huttel
 Thomas Charles Johnson
 Michael Howard Kelemen
 Emily Cecelia Kelley

Sylvia Jean Killough
 Charles Harris Klieman
 Wayne Ney Kochenderfer
 Paul Philip Krasner
 Christine Elizabeth Kuhn
 Gary Russell Leach
 Mary Ann Lozier
 Donald Ray Ludwig
 Linda Lee Peiffer Manzo
 Florence Erma Marsteller
 William Ray Mast
 Bernard Fred Master
 Richard Lorrain Mayes
 Maryann Pauline Mazurek
 Jean Lalen McGill
 Thomas Brandt Moll
 Phyllis Eileen Neff
 Earl Robert Neubauer
 William Henry Overholt, Jr.
 Barbara Theresa Pietzsch
 Craig Reginald Reckard
 Suzanne Ash Richards
 Arnold Steven Rosenbaum
 Anna Claire Sansenbach
 Janet Louise Schnider
 Barbara Jean Eichel Schultz
 Marie Ann Schumacher
 Harold Terry Shaner
 Deborah Shaw
 Barbara Jane Sheese
 Raymond Leigh Smith
 Kay Randy Sullivan
 Jane Alice Walter Suman
 Laurence Richard Test
 Lawrence Paul Tobias
 Mall Vahar
 Robert Charles Vannucci
 Frederick Davidson Vastine
 Urve Viitel
 Philip Henry Vokrot
 Norman Hastings Wanner, Jr.
 Paul Longstreet Warner, Jr.
 Patricia Mary Whittick
 Harold Fred Wiand
 Peter Chapman Wise
 Richard Ira Woodruff
 Beverly Lorraine Zinger



LIST OF STUDENTS, 1962-1963

Abbe, George Robert	Swarthmore	Barto, Lester G.	Basking Ridge, N. J.
Abrahamson, Manford, Jr.	Philadelphia	Bateman, William E.	Hartsville
Acton, Carolyn Stanion		Bateman, Robert L., Jr.	Manhasset, N. Y.
	Moorestown, N. J.	Bates, Henry M.	Hatfield
Adams, Linda C.	Palmyra	Bauerle, Joan C.	Douglassville
Adams, Stephen F.	Broomall	Baumgard, Carolyn J.	Skippack
Albeck, Linda J.	Danville	Beacher, Dennis B.	Springfield
Aldinger, Carol A.	Huntingdon Valley	Bean, J. David	Creamery
Aldinger, Richard W.	Media	Beazley, Edmund James	New City, N. Y.
Alexander, Wade A.	Hatboro	Bechtel, Bonnie Lee	Norristown
Alford, Leslie M.	West Chester	Beekey, Cyrus E., Jr.	Kutztown
Allen, David W.	Norristown	Behler, Marion A.	Allentown
Allen, James W., Jr.	Manhasset, N. Y.	Belanich, Madelyn Barbara	
Alspach, Frances A.	Lancaster		Old Lyme, Conn.
Altemose, Alma K.	Stroudsburg	Bell, Susan Elizabeth	Philadelphia
Alwine, Harry M.	Cincinnati 42, Ohio	Belmonte, Elizabeth J.	Neptune City, N. J.
Andes, Eugene B.	Lemoyne	Benedini, Judith A.	New York, N. Y.
Andres, Susan E.	Bridgeton, N. J.	Benfield, Jeanette M.	Alburtis
Andrews, Sara W.	Moorestown, N. J.	Bennett, Craig H.	Spring City
Antenson, Joseph E.	Philadelphia	Bennington, Richard W.	Morrisville
Armstrong, Judith A.	Scranton	Benson, Robert W.	Hatboro
Auer, Mary C.	Bethlehem	Bergey, Christine R.	Glenside
Bachelor, Thomas Gardner		Berlinger, Carl P.	Glenside
	Gilbertsville (R.D. #1)	Bernhardt, Lawrence R.	Phoenixville
Baer, James L.	Baltimore 12, Md.	Bernstein, Michael R.	Brooklyn 30, N. Y.
Bahlke, Susan Lee	Ridgewood, N. J.	Bew, Barbara Ann	Northfield, N. J.
Bailey, Nancy V.	Millville, N. J.	Beyer, David M.	Norristown
Baldwin, Linda H.	Norristown	Bien, David Lloyd	Florham Park, N. J.
Banks, Elizabeth B.		Bierlin, George Woolsey	Ambler
	Rockville Center, N. Y.	Binckley, Thomas L.	Laureldale
Banyai, Mary Jo	Limerick	Bisbee, Prudence H.	Burlington, N. J.
Barandon, Robert F., Jr.	Philadelphia	Black, Kermit Steele, Jr.	Perkasie
Barber, Spencer Finney, III		Blackson, Robert M.	Youngwood
	Pennington, N. J.	Bleil, Linda M.	Rockledge
Barlup, Mrs. Janet E.	Fairview Village	Blickman, Steven P.	Hague, Netherlands
Barnaby, William H., Jr.	Gibbstown, N. J.	Bloom, Geoffrey B.	Needham 92, Mass.
Barndt, Ralph Vernon	Harleysville	Blyth, Janet Lorraine	Trenton 8, N. J.
Barnett, Edward A.	Phoenixville	Boaz, Susan T.	Brigantine, N. J.
Barr, Francia L.	Reading	Boehner, Eleanor A.	Richboro
Barrett, Gary Lafrance	Phoenixville	Boens, Gary Penn	Broomall
Barrett, James P.	Easton	Bold, Susan C.	Bridgeton, N. J.
Barron, Wendell S.	Milltown, N. J.	Bole, Robert D., Jr.	Glassboro, N. J.
Barthold, Suzanne	Moorestown, N. J.	Bonekemper, Harold G., III	Lansdale
Bartman, Richard David	Pottstown	Bonner, David W.	Philadelphia

Bonos, Charles T., III	North Hills	Campbell, Hugh D.	Philadelphia
Booz, Carol J.	Secane	Campbell, John Newman	Chappaqua, N. Y.
Boris, Michael Z.	Philadelphia	Campbell, Robert E.	Biglerville
Born, Patricia A.	Philadelphia	Campbell, Robert Monroe	Chappaqua, N. Y.
Bortz, Hettie E.	Bethesda, Md.	Campbell, Sally L.	Phoenixville
Bosler, William L.	Lansdale	Canning, Sharon F.	Pottstown
Bottiglier, Elmeretta J.	New Cumberland	Carney, Robert A.	Haddonfield, N. J.
Bottjer, Christine A.	Craryville, N. Y.	Carpenter, Linda J.	Springfield
Boucher, Carol Ann	Oreland	Cavender, Barbara Joyce	Hop Bottom
Bourne, David A.	Philadelphia	Chandler, Dorothy A.	Peekskill, N. Y.
Boyd, Tara Patricia	Media	Chenovsky, John M.	Stowe
Boyer, Janice M.	King of Prussia	Christensen, David W.	Bellmawr, N. J.
Brackin, George G.	Glenside	Christman, Roy B.	Lehighton
Brackin, Joseph S.	Glenside	Chudoba, Michael J.	Bridgeport
Brackin, Philip S.	Glenside	Clamons, John D.	North Wales
Brader, Gary R.	Skippack	Clare, Adrienne	Yonkers 4, N. Y.
Bradley, John	Philadelphia	Clark, Jeffery S.	Haddonfield, N. J.
Breffitt, Roland F., Jr.	Doylestown	Clark, James Chester	Syracuse, N. Y.
Brenner, Georgia C.	Trenton 8, N. J.	Clark, John M.	Harrisburg
Brinton, Gail M.	Drexel Hill	Clawson, John R.	Collegeville
Brintzenhoff, Alton L., Jr.	Lyons	Clayton, Charles Lloyd	Pottstown
Brittain, Roger D.	Trenton, N. J.	Clayton, Norris V.	Spring House
Brown, Barbara L.	Thornton	Clifford, Terrie L.	Selinsgrove
Brown, Bonnie A.	Spring City	Clinchard, Sherry P.	Jenkintown
Brown, Elaine Kay	Millville, N. J.	Clough, Carolee J.	Collingswood, N. J.
Brown, Jeffrey W.	Oreland	Clouse, Edith A.	West Lawn
Brown, Stephen V.	Williamsport	Clouser, Robin A.	Havertown
Browne, Frank A.	Birdsboro	Clute, Alice Ann	Broomall
Browne, Roger W.	Philadelphia	Coblentz, Marcia K.	Wyomissing
Browne, Beverly Jeanne	Philadelphia	Colasanti, James N.	Stowe
Brungart, Suzanne Ellis	Norristown	Collins, Virginia M.	Philadelphia
Brunner, William C.	Spring City	Conn, David J.	Westfield, N. J.
Buchanan, James R.	Philadelphia	Conner, Kenneth B.	Richboro
Buller, James H.	Lancaster	Connor, Stephen Ross	Wyncote
Burhans, Barbara A.	Collegeville	Connor, Damon P.	Ridley Park
Burleigh, Bell C.	Collegeville	Cooke, Marilyn F.	Cherry Hill, N. J.
Burns, Bruce L.	Royersford	Coon, Keilah Doolittle	Cambridge 38, Mass.
Burt, Barbara L.	Monroeville	Coon, Lawrence L., Jr.	Norwich, N. Y.
Buttner, Annelies	Collegeville	Cooper, Donna J.	Abington
Butzbach, Sharon J.	Monroeville, N. J.	Cooper, Margaret A.	Sicklerville, N. J.
Cahill, G. Thomas	King of Prussia	Cooper, William R.	Doylestown
Caiola, Frank L.	Norristown	Cope, Timothy T.	Red Lion
Calvert, Richard A.	Wayne	Cowen, John Elwin	Bethesda 14, Md.
Cameron, Raymond D., III	Gwynedd Valley		
Campanella, Linda A.	Allentown		

Crabb, Lawrence James, Jr.		Dreyling, Robert Henry	Jamesburg, N. J.
	Plymouth Meeting	Dryfoos, Walter F.	Hazleton
Craig, Richard F.	Asbury, N. J.	Dudevoire, Donald L.	West Chester
Cranmer, Barbara M.	Manahawkin, N. J.	Du Fault, Suzanne	Trenton 9, N. J.
Cressman, Stephen D.	Westfield, N. J.	Duff, Carolyn J.	Fairless Hills
Cronmiller, Marilyn L.	Collegeville	Duff, Dale Reynolds	Alexandria, Va.
Cross, John Warren	Bradley Beach, N. J.	Duffie, Claire Alfred	Falls Church, Va.
Crough, David G.	Baltimore 27, Md.	Duffield, Conrad E.	Norristown
Csanady, Michael, III	Ridley Park	Dunn, Peter Allen	Havertown
Daly, James E.	Lafayette Hill	Dyason, Brenda E.	Scarsdale, N. Y.
Daniels, Robert H.	New Market, N. J.	Dyer, Nancy A.	Madison, N. J.
Davis, Dorothy L.	Hatfield	Easter, Nannette J.	Bethlehem
Davis, Elaine Kay	Hatfield	Eberwein, Carol D.	Philadelphia
Davis, Gary P.	Hellertown	Eble, Susan K.	Abington
Davis, George F.	Bethesda 14, Md.	Eckard, Kurt H.	Morton
Davis, Lucille D.	Chester Springs	Edgell, Neil Givan, Jr.	Seaford, Del.
Davis, Thomas Llewellyn, III	Tamaqua	Egolf, James D.	Boyertown
Dawson, Jeanne Ann	Elmira, N. Y.	Ehrhart, John Nevin	Perkasie
Day, Sue E.	Drexel Hill	Eichelberger, Diane C.	York
Dean, Kenneth R.	Norristown	Elfant, Carol J.	Philadelphia
Dean, Richard A.	Norristown	Ellis, Deborah Ann	Island Hts., N. J.
Deardorff, Linda M.	Tenafly, N. J.	Ellsworth, George Ronald	Berwyn
Dearsley, Stephen G.	London, England	Ellwell, Meredith Jane	Springfield
Debeer, Roy A.	Drexel Hill	Emmert, Ronald P.	Pottsville
Deck, Ronald L.	Camp Hill	Enion, Samuel R.	Wallingford
Decker, Robert J.	Elizabeth 3, N. J.	Ennis, George	Audobon
Degenhardt, William J.	Philadelphia	Entler, Joel W.	Drexel Hill
Delong, Allyn F.	Pottstown	Entrekin, Karen L.	Coatesville
Denzel, Henry S.	Bethlehem	Esterline, Judith Ann	Lansdowne
Denzer, Claire D.	Lake Hopatcong, N. J.	Euler, Brent W.	Wayne
Desilva, Carol J.	Dumont, N. J.	Euler, Gary L.	Oreland
Detwiler, David P.	Spring City	Evans, David Reed	Moorestown, N. J.
Detwiler, Dorothea M.	Brightwaters, N. Y.	Evans, James E.	Trenton 9, N. J.
Devine, Marie E.	Royersford	Evans, Lester Noll	Narberth
Dieffenderfer, Joanne E.	Easton	Eyre, S. Jane	Doylestown
Dieugenio, David G.	Downingtown	Fair, Paul L., Jr.	Radnor
Dillin, Jean H.	Orange, Conn.	Farwell, Louise	Needham 92, Mass.
Dilliplane, Janice G.	Philadelphia	Feldstein, Murray S.	Havertown
Dingman, Carlton Gage	Ho-Ho-Kus, N. J.	Fetterman, Kenneth Robert	Blue Bell
Dittenhafer, Brian D.	York	Field, Patricia Lynne	Collegeville
Dolman, Kathlene	Collegeville	Filler, S. Robert	Burlington, N. J.
Doremus, Richard L.	Red Bank, N. J.	Fillo, Kathy A.	Elmont, N. Y.
Dougherty, James J.	Coaldale	Findeisen, Mary A.	Spring City
Douglas, Gordon W.	Gwynedd Valley	Findeisen, Alfred Lee	Spring City
Doyle, Susan E.	Eatontown, N. J.	Finnemeyer, Helen Y.	Lansdale
Dreyling, Roger L.	Jamesburg, N. J.	Firkal, Kay Ann	Philadelphia

Fischer, Florence E.	Glassboro, N. J.	Goldsmith, Robert Lee, III	Towanda
Fisher, Jane Bonnie	Abington	Gordon, Mark	Phoenixville
Fix, Sandra K.	Reading	Gorman, Gerald Lee	Philadelphia
Flood, Carol J.	Media	Gould, John S.	North Wales
Folwell, Grace A.	Allentown	Graver, William J.	Glenside
Footland, Lenard Arthur	Feasterville	Graves, Paul W.	Pitman, N. J.
Forsythe, Robert K., Jr.	Royersford	Gray, Joseph H.	Carnegie
Foster, James Norman, Jr.	Windber	Gray, Margaret C.	Allentown, N. J.
Foucaud, James	Floral Park, N. Y.	Greenbaum, Lennard D.	Philadelphia
Fraser, Nancy Jane	Glenolden	Greim, Barbara A.	Norristown
Frazier, William L.	Newtown Square	Grimes, Mahlan A., III	Red Bank, N. J.
Freeland, Harvey J.	Horsham	Gross, John Carl	Norristown
Fretz, Lloyd Keith	Collegeville	Gross, Robert H., Jr.	Havertown
Frey, Cheryl Ann	Cherry Hill, N. J.	Gross, Virginia	Wyomissing
Fritchman, Lois J.	Emmaus	Grubb, Wm. Francis	Lansdale
Frosch, Suzanne Barbara	Trenton 8, N. J.	Guildford, Bertha E.	Winsted, Conn.
Fruman, Harvey B.	Shenandoah	Haak, Edna Gretchen	Myerstown
Fryer, Judith E.	Pottstown	Haas, Maryann K.	Slatington
Fuges, Christopher L.	Philadelphia	Habeck, Judith H.	Yonkers, N. Y.
Fuhrman, Linda W.	Neffsville	Hacussner, Charles F.	Philadelphia
Fullam, Harland George	Narberth	Hahn, Roger A.	Bridgeton, N. J.
Funk, Carol A.	Pennsauken 11, N. J.	Hakanson, Alan H.	Norwell, Mass.
Funk, Mary Louise	Ambler	Hake, James H.	Carversville
Garner, Craig C.	Media	Hall, David A., III	Philadelphia
Gazdick, Stephen F.	Nesquehoning	Hall, Mary B.	Sparta, N. J.
Geesaman, Richard Amos	North Wales	Hallinger, Jeffrey W.	Mont Clare
Gehling, Linda H.	Plainfield, N. J.	Hamlin, Helen Edith	Stewartsville, N. J.
Gehman, Geraldine C.	Lansdale	Hamm, Margaret S.	Bangor
Gelfand, Toby	Philadelphia	Hamm, Mary L.	Bangor
Genter, R. Marshall	Pitman, N. J.	Hann, Terry L.	Warwick, N. Y.
Gerber, Sandra L.	Dover	Harding, Sally A.	Radnor
Gerhard, Sara-Jane	Columbus 13, Ohio	Harman, Susan Dale	Haddonfield, N. J.
Getty, Ruth J.	King of Prussia	Harmon, David R.	Hockessin, Del.
Gettys, Barbara L.	Media	Harr, Joseph W.	Quakertown
Gibbs, Norman E.	Neptune, N. J.	Harris, Anne	Oakhurst, N. J.
Ginter, Dorothy S.	Collegeville	Harris, Nancy J.	Glen Ridge, N. J.
Gladstone, Robert A.	Philadelphia	Harrison, Edwin J.	Havertown
Glasby, Stuart F.	Glenside	Harshaw, Edward, III	Lansdowne
Glass, Susan Elizabeth	Chambersburg	Hartman, Lora-Belle	Lancaster
Glasser, Gail K.	Allentown	Hartzell, Arlene R.	Chester
Glassmoyer, Deborah J.	Willow Grove	Hartzell, Lois W.	Chester
Glessner, Helen C.	Leek Kill	Hatter, Bruce Donald	Upper Darby
Goehringer, Richard S.	Bryn Mawr	Hawksley, Vaughn C.	Philadelphia
Goekmeyer, Patricia N.	Middletown, N. J.	Hays, Cynthia A.	Havertown
Goldacker, George W., III	Surf City, N. J.	Hazeltine, Colin Rawson	Philadelphia
Goldberg, Victor M.	Philadelphia	Heber, Carol E.	Philadelphia

Heber, Janice E.	Philadelphia	Hunter, Jean Estella	Collingswood, N. J.
Heckles, John C.	Lancaster	Hurff, Richard P.	Haddon Heights, N. J.
Heft, Ruth D.	Conshohocken	Hutcheson, Helen N.	Glenside
Heller, Horace Craig	Royersford	Hyatt, Leslie S.	Schwenksville
Hellwig, Phillip W.	Rydal	Ihloff, Robert W.	Newington 11, Conn.
Hendler, Sandra J.	Abington	Iwata, Michi	Seabrook, N. J.
Hendrickson, Lawrence W.	Skippack	Jackson, John E., Jr.	Philadelphia
Hendrixson, Bruce C.	Levittown	Jakstas, James A.	Middletown, N. J.
Hendry, Claire E.	Philadelphia	James, Susan J.	Merion
Hennessy, Judith E.		Janle, Elsa M.	Philadelphia
	Collingswood 7, N. J.	Janoski, Frank J., Jr.	King of Prussia
Hetherington, Nancy L.	West Chester	Jarmon, Robert Geoffrey	
Hentz, Charles R.	Riverton, N. J.		West Long Branch, N. J.
Hermann, Richard P.	Southampton	Jefferis, Donald Sharp	Coatesville
Hetzel, Mildred P.	Perkiomenville	Jenney, Margaret	Chester Springs
Heyen, E. Jane	Katonah, N. Y.	Jensen, Paul M.	Malvern
Higgins, Alan E.	Southampton	Johansen, Joanna Graham	Havertown
Higley, Susan J.	Philadelphia	Johnson, Candace Em.,	Bangor
Hill, Craig S.	Norristown	Johnson, Ralph W.	Creamery
Hill, Patricia	Oreland	Johnson, Richard C.	Scranton
Hiller, Roberta D.	Rumson, N. J.	Johnson, Thomas R.	St. Clair
Hindley, Frederick R.	Morrisville	Jonassen, Tor H.	Lafayette Hill
Hodgson, David L.	Bala-Cynwyd	Jones, Dale A.	Ridley Park
Hoffman, Sandra J.	Philadelphia	Jones, Diane M.	Philadelphia
Hoffsommer, Bruce A.	Ridley Park	Jordan, Donald C.	N. Cape May, N. J.
Hofmann, Henry Frank, Jr.	Rutledge	Kachel, Linda R.	Red Bank, N. J.
Holbrook, Julia C.	Wilmington 3, Del.	Kachmar, Joseph F.	Phoenixville
Holl, Paul E.	Lansdale	Kahler, Diana Lynn	Ridley Park
Holmes, Patricia L.	Glenside	Kalwaic, Richard John	Pottstown
Holmes, William A.	Philadelphia	Kampe, Geoffrey Douglas	
Holmgren, Mary A.			Orchard Lake 2, Mich.
	New Shrewsbury, N. J.	Karsch, Daniel N.	Philadelphia
Holochuk, Nancy A.	Bethlehem	Kasinger, Patricia A.	Lansdale
Hommel, Mary Anne K.	Philadelphia	Katz, Jonathan D.	Bristol
Honeysett, Suzanne J.	Norristown	Kauffman, Kenneth W.	Trenton 90, N. J.
Horrocks, David P.	Philadelphia	Keehn, Rudolph W., Jr.	Pottstown
Horrocks, Robert Norman	Philadelphia	Keehn, Shirley A.	Pottstown
Horton, William G.	Bridgeton, N. J.	Kebs, Judith H.	Schwenksville
Hottenstein, Robert E.	Spring City	Keller, Sarah H.	Yorktown Heights, N. Y.
Hubbs, Walter P., III		Kelley, Janice C.	South Dennis, Mass.
	Pennsauken 8, N. J.	Kelley, Elizabeth	Oaklyn 6, N. J.
Huebner, William E.	Abington	Kelly, Michael John	Hackettstown, N. J.
Huehnergath, Richard J.	Reading	Kennedy, Earl W.	Limerick
Hultz, Barbara Ann	Philadelphia	Kemble, Dorothy Mae	Secane
Hunsberger, Joseph L.	Norristown	Kenschaft, Robert B.	Wallingford
Hunsicker, John H.	Royersford	Kephart, Edwin G., Jr.	Norristown

Kern, R. Gregory	Philadelphia	Kummler, Judith L.	Iselin, N. J.
Kershner, Lois M.	Doylestown	Kunc, Frank L.	Salisbury, Md.
Kiesling, Mildred E.	Bordentown, N. J.	Kuntz, Janet P.	Westfield, N. J.
Killian, Nancy A.	Wayne	Kwiecinski, Eric F.	Ho-Ho-Kus, N. J.
Killough, Grace Elizabeth	Bala-Cynwyd	Laicha, Patricia Ann	Jonestown
Kimble, Edwin L., Jr.	Princeton, N. J.	Lamberton, Mary E.	Jenkintown
Kinces, Lorraine F.	Doylestown	Lance, Judith Allen	Glen Gardner, N. J.
King, Margaret Carolyn		Land, Garland L., Jr.	Laureldale
	Island Heights, N. J.	Landis, Glenn Hagey	Souderton
King, Mons A.	Radnor	Lane, Carole A.	Abington
Kinose, Yasunobu	Shiga-Ken, Japan	Lankalis, John F., Jr.	Lansford
Kitchell, Richard R.	Whippany, N. J.	Larson, David Alfred	Havertown
Klee, Frederick L.	Souderton	Larson, Jane F.	Madison, N. J.
Klein, Calvin Alfred	Glenside	Larzelere, Robert T., Jr.	Doylestown
Klein, Fredericka Ann	Ridley Park	Lauer, Virginia Grace	Waymart
Kleinginna, Elizabeth A.	Philadelphia	Laughlin, Constance Ann	Mt. Airy, Md.
Kleinhoff, Joan F.	Hatboro	Laverell, William D.	Norristown
Kleinsmith, Paul W.	Dover, N. J.	Layton, Robert B.	Avon, N. J.
Klie, Barbara Joan	Andover, Mass.	Leahy, Marian E.	Philadelphia
Kline, Dennis M.	Pottstown	Leaming, Robert Cresse	Pottstown
Knauf, Judy L.	Abington	Lecrone, K. Ray	York
Knight, Walter F.	Milford, N. J.	Lefever, William F.	Schwenksville
Knott, Frances Kennedy		Lehman, Carol L.	Center Valley
	Washington, D. C.	Lehr, Robert	Philadelphia
Koehler, Betty J.	Plymouth Meeting	Lehr, Virginia	Philadelphia
Kohn, Karen Elizabeth	Drexel Hill	Leiser, Paul E.	Laurel Springs, N. J.
Kohr, David R.	Fox Chase	Leister, Edward H., II	Littlestown
Korenkiewicz, Walter S.	Collegeville	Lemke, Timothy Allen	Lemoyne
Kraft, Judy C.	Meshoppen	Lenz, Judith K.	Bergenfield, N. J.
Krampf, Judy	Myrtle Beach, S. C.	Lerch, Patricia A.	Rohrerstown
Kratz, Dale R.	Nazareth	Leshner, Harvey K.	Collegeville
Krauss, Wayne D.	Mainland	Leslie, Katriona A.	Bala Cynwyd
Krauss, Robert Morris, Jr.	Lansdale	Lettinger, William L.	Huntingdon Valley
Krauss, Carol Ann	Glen Mills	Leupold, George F., Jr.	Westmont 7, N. J.
Krehbiel, Diana E.	Wilton, Conn.	Levan, Kathy May	Reading
Kreis, Ronald W.	Fair Lawn, N. J.	Levering, William J., Jr.	King of Prussia
Kressler, Mirian J.	Wynnewood	Levin, Anne S.	Collegeville
Krick, Carolyn P.	Abington	Lewis, Alexander, III	Pittsburgh
Kroschwitz, Jacqueline	Trenton 10, N. J.	Lewis, Ellen L.	Elizabethtown
Kubie, Robert D.	Oradell, N. J.	Licsko, Linda S.	Butztown
Kuhn, Clifford C.	Hatboro	Lilley, George Wood, Jr.	Lima
Kuhns, Carol J.	Kutztown	Linet, Lewis R., Jr.	Philadelphia
Kulaski, Mrs. Marianne	Phoenixville	Lintz, David I.	Swedesboro, N. J.
Kulesh, William E.		Lippincott, Samuel Earl	Burlington, N. J.
	Haddon Heights, N. J.	Lippy, Joseph Edmund, Jr.	Norristown
Kulp, Lillian M.	Emmaus	Livelli, Michael	Bricktown, N. J.

Livingston, Robert A.	Narberth	McFee, Robert W.	Robesonia
Livingston, Robert L.		McInerney, Linda L.	Easton
	Seaside Heights, N. J.	McKinney, Thomas C., Jr.	
Lobley, William J., Jr.	Oreland		New Paltz, N. Y.
Lodge, Thomas R.	Rosemont	McMullin, Linhart F., II	Lansdale
Long, Bryan Kenneth	Robesonia	McNaull, Evelyn Margaret	Malvern
Long, James M.	Danville	McVaugh, George Snyder	Philadelphia
Longaker, George M., III	Pottstown	Meade, Marian Anne	Lansdowne
Lore, Patricia	Bridgeton, N. J.	Melrose, Joseph H., Jr.	Oreland
Lotz, Preston Robert	Cherry Hill, N. J.	Mendelson, Anne	Harleysville
Luck, Karl Andrew	Wayne	Messig, Arlene L.	Union, N. J.
Lundgren, Ona R.	Demarest, N. J.	Metcalf, Lucyann M.	Bellwood
Lundgren, William S.	Bala Cynwyd	Metzger, Dorothy A.	Lehighon
Lybarger, John M.	Levittown	Meyers, Larry G.	Obelisk
Lybarger, William M.	Levittown	Miido, Helis	Bridgeton, N. J.
MacCadden, Frances Ann	Millville, N. J.	Mikuliak, H. Jane	Gibsonia
Mack, William B.	Newtown	Mikuliak, Mary Ann	Gibsonia
Mackey, John H.	Glenside	Miller, Darlene R.	Hellam
MacMullan, Norman D., Jr.	Center Square	Miller, Frances R.	Bethayres
MacPhee, Harry Judson	Ridley Park	Miller, Gary R.	Matawan, N. J.
Maddux, Walter S.	Downingtown	Miller, George Milton	Parma 29, Ohio
Major, Donald F.	Toms River, N. J.	Miller, Judith J.	E. Stroudsburg
Malise, Cathie C.	Bordentown, N. J.	Miller, Lawrence A.	Philadelphia
Maloney, Joyce Ann	King of Prussia	Miller, Lee Clyde	Graterford
Manser, Harry Edward	Levittown, N. J.	Miller, Michael Dennis	Levittown
Marcy, Miriam	Pottstown	Miller, Sally A.	Coatesville
Markel, Richard M.	Conshohocken	Miller, Sherman S., Jr.	Norwood
Marks, Richard R.	Pottstown	Miller, Susan E.	Johnstown
Marshall, Sarah L.	Collegeville	Mills, Susan Lee	Lansdale
Marsland, Bruce David	Parkerford	Milner, Pamela Jean	Glenside
Martin, Donald A.	Westbrook, Conn.	Minehart, Thomas Zeno, III	
Martin, David S.	Broomall		Fort Washington
Martin, Curtis George	Morton	Minker, Linda Lee	Wagontown
Martin, Lynn E.	Red Bank, N. J.	Mogel, Ralph E.	Royersford
Maschock, Robert M.	Barnesville	Mogel, Ronald L.	Royersford
Mastro, Joseph, Jr.	Ambler	Moglia, Ronald J.	New Hyde Park, N. Y.
Mattis, Donald J.	Lafayette Hill	Molendyke, Leonard Stolk	
Matusow, Donald E.	Philadelphia		Pompton Plains, N. J.
Maynard, John W., Jr.	Ridley Park	Montgomery, William	Norristown
Maynard, John C.	West Chester	Moock, Pauline C.	Central Bridge, N. Y.
Maze, Susan L.	Collegeville	Moore, Betteanne B.	Sharon Hill
McArthur, Sandra L.	New Hope	Moore, Jesse C.	Bridgeton, N. J.
McClellan, Gary R.	Spring City	Moran, Eugene H.	West Chester
McCorkle, Susan E.	Woodbury, Conn.	Moretz, Caroline V.	Allentown
McDonough, Pamela Ann		Moritz, Valerie Martha	Warrington
	East Orange, N. J.	Morris, Cynthia	Belmar, N. J.

Moser, Mark E.	Long Branch, N. J.	Poehlman, Paul E.	Norristown
Moyer, Calvin L.	Philadelphia	Pollanick, Marion R.	Philadelphia
Munro, Robert M.		Pollock, Elwood Reid	Blackwood, N. J.
	Southampton, Bermuda	Polsky, Harry S.	Woodbury, N. J.
Murch, Cynthia A.	Swarthmore	Popowich, Robert M.	St. Clair
Murphy, Marianne B.	Drexel Hill	Pote, Harry H.	Ridley Park
Murphy, Meridy E.		Potteiger, Linda May	Temple
	Haddon Heights, N. J.	Powers, Fred Stewart	Wellsboro
Murphy, Sally A.	Flourtown	Pradervand, Paul	Geneva, Switzerland
Musselman, M. Suzanne		Pratt, Helen M.	Palmyra
	Blawenburg, N. J.	Pratt, William C.	Reading
Musselman, Gerald C.	Souderton	Price, Marlene D.	Baltimore 28, Md.
Myers, Edwin C.	Pequea	Prickitt, Ralph E.	Collingswood 7, N. J.
Newcomb, Nikki Joan	Glassboro, N. J.	Prindle, Susan B.	Sherborn, Mass.
Nissen, Eric L.	Metuchen, N. J.	Printz, Janet E.	Norristown
Norman, David	Philadelphia	Purvins, Andris J.	Linfield
Noyes, Judith E.	Springfield	Pyle, Ronald Allen	Maple Shade, N. J.
Nunn, Ruth J.	Broomall	Quinn, Dennis Joseph	Lafayette Hill
Nylen, Donna L.	Hyattsville, Md.	Raffauf, J. Suzanne	Sinking Spring
Oakley, Nancy S.	Allentown	Rambo, Bruce B.	Norristown
O'Donnell, Kathryn M.	Pottstown	Rapp, John P.	Philadelphia
Ogram, Herbert J.	Morton	Rau, David J.	Philadelphia
Ohhira, Takashi D.	Tokyo, Japan	Rauch, Bruce G.	Obelisk
O'Keefe, Gloria Suzanne	S. Pottstown	Rauch, Edwin Forrest	Philadelphia
O'Leary, Cornelius F.	Massapequa, N. Y.	Reed, Michael B.	Manheim
Oliver, David W.	Wayne	Reed, Paul R., Jr.	Drexel Hill
Ort, Carol Jeanne	Quakertown	Reed, Sally J.	Port Norris, N. J.
Parker, John Calvin	Collingswood 7, N. J.	Reed, Shirley G.	Elizabethtown
Pasquarella, Gail E.	Drexel Hill	Refford, Leslie	Coatesville
Pearson, Betsy Ann	Glenside	Regester, Dianne Lee	Drexel Hill
Peck, Nancy Elizabeth	Blue Bell	Reid, Robert D.	Cheltenham
Peck, Carl Frederick	Millville, N. J.	Reifsneider, Margaret A.	Norristown
Peffle, Margery L.	Philadelphia	Reinstein, Charles	Pottstown
Peiffer, Susan D.	Huntington Valley	Renner, Otto Washington	Ambler
Peraino, Charles R.	Bergenfield, N. J.	Rentschler, Adele	Haverford
Pellegrino, Charlotte A.	Philadelphia	Rettew, Martha L.	Reading
Pfeiffer, Earl Charles	Drexel Hill	Rex, Sally Ann	Slatington
Phillips, David Jarvis	Philadelphia	Reynolds, John C.	Reading
Pierce, Carol A.	Vienna, Va.	Rhile, Joseph E.	Leesburg, Fla.
Piergrossi, Silvio F.	E. Rutherford, N. J.	Rhoads, Thomas B.	Pottstown
Pihlgren, Gunnar	Göthenburg, Sweden	Riesz, Roberta J.	Chatham, N. J.
Pillagalli, James E.	Mortonville	Riley, Richard L.	Norristown
Pinkerton, Daniel A.	Frenchtown, N. J.	Rimel, William Philip	Wynnewood
Piston, John B.	Lansdale	Ritting, June M.	Philadelphia
Place, Roger A.	Fairview Village	Ritz, Ronald H.	Mamaroneck, N. Y.
Plischka, Hans P.	Bremen, Germany	Robart, William F.	Tenafly, N. J.

Robbins, Sharon E.	Parsippany, N. J.	Schmoock, Joan E.	Rushland
Roberts, George H., III	Delanco, N. J.	Scholl, William F.	Dumont, N. J.
Robertson, Ellen Virginia		Schultz, Donald J.	Bellmawr, N. J.
	Moorestown, N. J.	Schumacher, James D.	Jackson, N. J.
Robinson, Sandra L.	Toms River, N. J.	Schwartz, Herman L., III	Gwynedd Valley
Rodenhausen, Karen M.	North Wales	Schwarz, Jo-Anne	Philadelphia
Rodimer, Patricia J.	Chatham, N. J.	Schweinfurth, William F.	Chalfont
Rogers, Linda M.	Norristown	Schweitzer, Elaine M.	Oreland
Romanik, Donald Joseph		Selgrade, Jill E.	Girardville
	Bridgeton, N. J.	Searfoorce, William C.	Glenside
Romanishin, Donna Marie		Sensenig, Kathryn J.	Pottstown
	Millville, N. J.	Sentman, Donald Warren	Fortyfort
Roosen, Jeanne A.	Ridgewood, N. J.	Serio, Harry L.	Newark 5, N. J.
Rosenberger, Jerry Lee	Quakertown	Sermarini, Anthony J.	Moorestown, N. J.
Roshong, Ruth A.	Norristown	Seymour, Lee A., Jr.	Collegeville
Rossiter, Donald Herman	Woxall	Shadle, Lynne V.	Glenside
Rothenberger, Sharon Gail		Shane, Edward Calvert	Spring City
	Mt. Penn, Reading	Shank, Charles Richard	Norristown
Rothman, Gail Dolores	Norristown	Shaw, Robert	Goshen, N. J.
Routzahn, Barbara Jeanne	Levittown	Shearer, Barbara A.	Philadelphia
Rouzer, Bruce R.	Lansdale	Sheeder, Ronald X.	Collegeville
Rozsas, Maryann A.	Stowe	Sheeder, Sherry A.	Moorestown, N. J.
Ruberg, Raymond L.	Philadelphia	Sherman, William E.	Rocky Hill, Conn.
Rudnyansky, Leslie I.	New York 22, N. Y.	Shibe, Vilja C.	Riverton, N. J.
Rudolph, Judith A.	Merchantville 8, N. J.	Shinnick, James P.	Oaklyn 6, N. J.
Rupp, Barbara L.	Souderton	Shisler, Paul L.	Harleysville
Russell, Enos Louis, Jr.	Jenkintown	Shissler, Anne	Haddon Heights, N. J.
Ruth, John D.	Collegeville	Shope, Elizabeth B.	
Rutledge, George E.	York		San German, Puerto Rico
Ryan, James H.	Pitman, N. J.	Shorb, Brenda L.	Glenside
Rynex, Edward Lloyd	Moorestown, N. J.	Showalter, Joanna L.	New Holland
Sager, Lawrence	Limerick	Shuman, Sandra Alice	Newport
Sales, Joel D.	Easton	Sickler, Carolyn J.	Sicklerville, N. J.
Sall, David L.	Philadelphia	Siebensson, John W.	Oreland
Sanders, Richard W.	Jenkintown	Siegal, Cheryl L.	Kingston
Sandhoff, Thomas W., Jr.		Siegal, Janet L.	Millville, N. J.
	Trenton 8, N. J.	Simmons, Helen W.	Downingtown
Sann, Jonathan E.	Wilmington, Del.	Sims, Bruce K.	Yonkers, N. Y.
Santucci, Thomas F.	Yeadon	Sims, Coral A.	Morton
Saylor, Lyle T.	Conshohocken	Sinclair, Doris A.	Upper Darby
Schaal, Charles R.	Oaklyn 6, N. J.	Sitko, Walter S.	Perkiomenville
Schaeffer, Ethel K.	Sunbury	Slim, John Howard	
Schatz, John Edgar, Jr.	Collegeville		Merchantville 8, N. J.
Scheidt, Kay Elaine	Gibraltar	Smiley, Judith Ann	Kimberton
Scheirer, James Edward	Pottstown	Smink, Christian P.	Pottsville
Schermerhorn, Charles F.		Smith, H. Donald	Quarryville
	Short Hills, N. J.	Smith, Howard Marshall, Jr.	
Scheuren, Clarence W.	Collegeville		Red Bank, N. J.
Schill, Beverly D.	Flushing 54, N. Y.	Smith, Jane L.	North Arlington, N. J.
Schlick, Richard B.	Schwenksville	Smith, Janet A.	Oreland
Schmidt, Diane C.	Flourtown	Smith, Patricia H.	Oneonta, N. Y.

Smith, Robert J.	Doylestown	Swann, Eugene J.	Newark 6, N. J.
Smith, Walter E.	Newport	Swartley, George E., Jr.	Souderton
Smith, Walter P.	Hockessin, Del.	Swartley, Thomas B.	Harleysville
Smyth, James G.	Philadelphia	Swinton, Thomas Stott	Colonia, N. J.
Snyder, Judith L.	Washington 16, D. C.	Talmage, Margaret L.	Westmont 7, N. J.
Snyder, Lawrence K.	Philadelphia	Taney, Carol F.	Phoenixville
Snyder, Neil Harold	Willow Grove	Tarleton, Nancy A.	Whippany, N. J.
Soles, Allen H.	King of Prussia	Tartaglia, Louis	Philadelphia
Souders, Charles P.	Reading	Taylor, Catherine A.	West Chester
Sovizal, Robert J.	Pottstown	Taylor, John A., III	Fleetwood
Spaeth, David T., Jr.	Pitman, N. J.	Taylor, Phyllis A.	Lumberville
Spahr, Natalie Wood	Gladwyne	Taylor, Roy F.	Swarthmore
Spangler, Joel Leidy	Wellesley 81, Mass.	Taylor, Sandra Anne	Ambler
Sparks, Paul C.	Burlington, N. J.	Templeton, Gilbert W.	Westfield, N. J.
Spencer, Charles H., Jr.	Sea Girt N. J.	Teti, Nicholas Frank	Coatesville
Spicer, Kenneth M.	Bethesda 14, Md.	Theisz, Brenda E.	Pittstown, N. J.
Spoll, Edward A.	Philadelphia	Thomas, Marilyn Ruth	Fairview Village
Spokenbergh, Richard K.		Thompson, Mary E.	Lafayette Hill
	Wrightstown, N. J.	Thompson, Linda F.	Franklin, N. J.
Spurgeon, Lincoln	South Dennis, N. J.	Thompson, Paul	Spring Grove
Stamford, Katherine A.	Swarthmore	Thorburn, Anne L.	Westfield, N. J.
Stanson, Peter	Pottstown	Threapleton, Sandra Lee	Willow Grove
Stapleton, Dayle L.	Media	Tiemann, Bruce	Tappan, N. Y.
Starr, Vivian Irene	Frackville	Tignor, Judith H.	Yeadon
Stauffer, Anne	Swarthmore	Tobias, Lawrence Paul	Pottstown
Stauffer, James E.	Pottstown	Toombs, Winfield S.	Lansdowne
Stayer, Sam N.	Millersville	Travis, John D.	Philadelphia
Steele, Kathryn Munger	Westport, Conn.	Troster, Alfred B.	Lansdale
Steinman, Lucille Joyce	East Greenville	Trout, Lynne Adams	Woodbury, N. J.
Stetler, Barbara Ann	Shamokin	Tucker, Susan L.	Old Saybrook, Conn.
Stevens, Charles J.	Burlington, N. J.	Turner, Ruediger I.	Bridgeton, N. J.
Stevens, Mitchell A.	Ventnor City, N. J.	Tweed, Paula N.	Downingtown
Stevenson, Barbara J.	Moorestown, N. J.	Twentyman, Jim W.	Homer, N. Y.
Stevenson, Robin L.	Philadelphia	Tyler, William B.	Cape May, N. J.
Stewart, David M.	Springfield	Tyson, Stuart W.	West Reading
Stewart, Dorothy R.	Broomall	Unger, Christopher P.	Doylestown
Stilwell, Robert W.	Philadelphia	Van Doren, Edward Marsena	
Stitley, Judith Audrey	Dalmatia		Trenton 8, N. J.
Stock, Donald H.	Philadelphia	Vennema, Peter H.	Haddonfield, N. J.
Stolar, Susan A.	Loudonville 11, N. Y.	Videon, Frank C., Jr.	Drexel Hill
Stratton, Frank T., Jr.	Wyncote	Vlachos, Edith Louise S.	Phoenixville
Strickler, Virginia K.	Crum Lynne	Vogel, Arlene K.	Newton Square
Stronstorff, Carol M.	Elberon, N. J.	Vogel, Franklin, Jr.	Runnemed, N. J.
Stuart, Ronald Keith	Collegeville	Vogel, Katherine C.	Needham 92, Mass.
Stubbs, Clarence Durrell	Lansdale	Vogel, Richard D.	Havertown
Stumb, David F.	Quakertown	Von Kleec, Beverly L.	Horsham
Stryer, William L.	Spring City	Wagner, Louise C.	Hamburg
Sugg, Jane K.	Bethlehem	Walenta, Marion L.	Bethlehem
Sullivan, Suzanne M.	Stratford, N. J.	Walker, Deanna Jane	Mount Joy
Sundby, Harold C., Jr.	Roslyn	Walker, Samuel Clevenge	Ardmore
Swan, Cynthia A.	Silver Springs, Md.	Wall, M. Brent	Oaks

Wallace, Jean M.	Glenside	Wilson, Dennis G. R.	Glen Ridge, N. J.
Walsh, Norman F.	Collegeville	Wilson, Leonore D.	Merchantville 8, N. J.
Walter, Thomas Lawrence	Levittown	Wilt, Thomas H.	Woodbury, N. J.
Warner, Toni J.	Edgewater, Md.	Winters, Paul J.	Phoenixville
Warren, John R.	Ocean City, N. J.	Wirth, John Clarence, Jr.	Philadelphia
Washko, Sandra Susan	Trenton 8, N. J.	Witman, Ronald L.	Wernersville
Watkeys, Janice I.	Flourtown	Witman, Thomas James	Royersford
Watson, Lynn P.	Syosset, N. Y.	Woldoff, Herbert S.	Carneys Point, N. J.
Weaver, John H.	Pen Argyl	Wolf, Carolyn A.	Allentown
Weekes, Sandra E.	Linwood	Wolf, David Lee	Drexel Hill
Weidner, Lee A.	Hellertown	Wolf, Donald T.	York
Weiler, Cynthia	Philadelphia	Wolfgang, Mary I.	Herndon
Weisel, David W.	Quakertown	Woodward, Kenneth E.	West Grove
Weisel, Margaret Anne	Quakertown	Worden, Nancy S.	Wayne
Weiss, Valerie A.	Philadelphia	Worster, Florence A.	Oreland
Weldon, Margaret L.	Perkiomenville	Worth, Larry D.	Bayville, N. J.
Weller, Robert H.	Lansdale	Worthington, Lynn M.	New Hope
Wells, David J.	Norristown	Wright, Diana June	Cape May, N. J.
Werden, Peggy	Jenkintown	Wuenschel, Mary Ann	Flourtown
Wert, John H.	Hamburg	Wurster, Stephen H.	Williamsport
White, Don M.	Marietta	Yaskin, Judith A.	Haddonfield, N. J.
Widmaier, Carole F.	Trenton 10, N. J.	Yates, Virginia Carol	Bethayres
Wiencke, Hildegard W.	Southampton	Yocum, Frederic W., Jr.	Aldan
Wiest, William G.	Collegeville	Yost, Elizabeth M.	Collegeville
Wighton, Robert, Jr.	Morris Plains, N. J.	Yost, Irene R.	Allentown
Wilf, Theodore J.	Havertown	Yost, Susan B.	Collegeville
Wilkins, Nancy Louise		Zabarah, Mohammed Ahmed	
	Haddon Heights, N. J.		Washington, D. C.
Willever, Ann E.	Phillipsburg, N. J.	Zabel, Judith H.	St. Petersburg 7, Fla.
Williams, Barbara Sue	Dayton 19, Ohio	Zaehring, Craig B.	Red Bank, N. J.
Williams, Diane E.	Newtown	Zartman, B. Theodore	Reading
Williams, Ronald L.	New Holland	Zeh, Geoffrey N.	Nutley 10, N. J.
Williams, Ruth A.	Spring Mount	Zelley, Lee Seitz	Schwenksville
Williamson, Barrie A.	Norristown	Ziegenfus, William J.	Northampton
Williamson, Bruce Stephan		Zimmer, William J., Jr.	Morton
	Cherry Hill, N. J.	Zimmermann, John W., III	Frederick
Willis, Virginia G.	Bryn Mawr	Zinger, Kathrine L.	Conshohocken
Willson, Bonnie L.	Allentown	Zizelman, Jon Mark	Tamaqua
Wilson, Barclay M.	Somerville, N. J.	Znotens, Mikelis Gunars	Quakertown
Wilson, Betty J.	Audubon 6, N. J.	Zulick, Jay D., III	Lafayette Hill

SUMMARY:

1962-1963

MEN 548

WOMEN 434

TOTAL STUDENTS:

982

ALUMNI ASSOCIATION

OFFICERS—REGIONAL ALUMNI GROUPS 1962-63

President — Harold L. Wiand, '28, 334 Calvert Rd., Merion Station, Pa.
Vice-President — Florence O. Benjamin, '30, Jericho Manor, #133, Jenkintown, Pa.
Secretary-Treasurer — Mrs. Alfred Creager, '31, 522 Main St., Collegeville, Pa.
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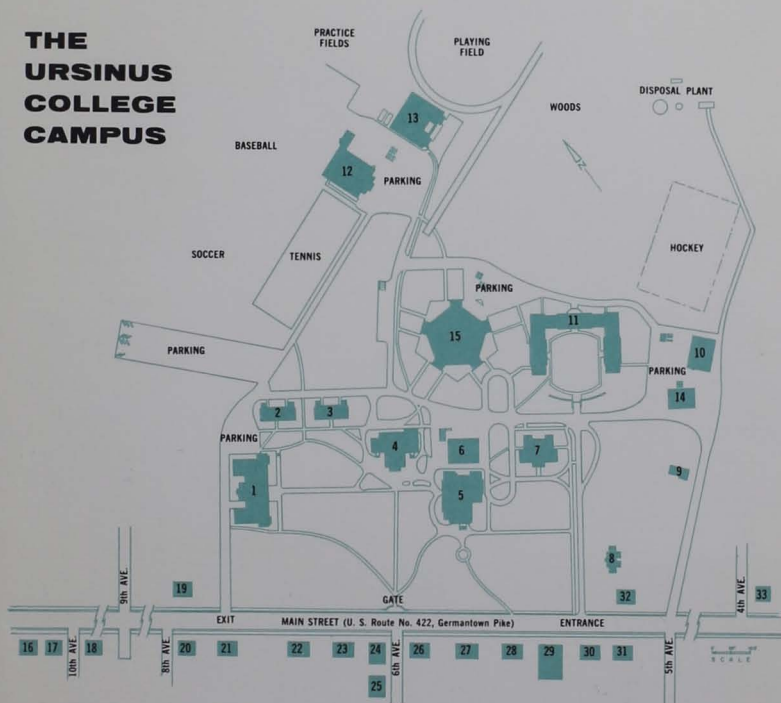
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INDEX

Absences	43	Gymnasiums	27
Academic Council	18	Health and Physical Education, Courses in	80
Acceleration	38	Departmental Requirements	105
Accreditation	22	History, Courses in	84
Accounting, Courses in	70, 71	Departmental Requirements	105
Special Concentration	70	Historical Sketch	21
Activities	23	Honors	45
Administration	11	Awarded in 1962	111
Admission	32	Industrial Relations, Courses in	
Advanced Standing	33	(see Economics)	70
Advisers	59	Special Concentration in	70
List of	18	Insurance, Accident and Health	46
Alumni Association	126	Latin, Courses in	69
Astronomy, see Physics		Departmental Requirements	
Athletics	23	(see Classics)	104
Bills	39	Library	27
Biology, Courses in	63	Loan Funds	48
Departmental Requirements	106, 107	Majors, Requirements for	104
Board	43	Mathematics, Courses in	87
Botany, see Biology		Departmental Requirements	105
Buildings and Equipment	27	Matriculation	32
Bureau of Student Employment	47	Map, Campus	
Business Administration, Courses in	70		<i>Inside Back Cover</i>
Departmental Requirements	104	Medical Service and Insurance	45
Calendar	6, 7	Music, Courses in	90
Camp for Women	46	Private Lessons	40
Chapel	43	Officers of the Corporation	10
Chemistry, Courses in	66	Organizations	24
Departmental Requirements	107, 108	Part-Time Students	34
Choice of Studies	59	Payments	39
Classical Languages, Courses in	68	Philosophy, Courses in	91
Departmental Requirements	104	Physical Education Activities	82
College Principles	21	Physician	45
Commencement Day	7	Physics, Courses in	93
Committees of Board of Directors	10	Departmental Requirements	107, 108
Committees of the Faculty	18	Placement Bureau	48
Correspondence with the College	4	Political Science, Courses in	95
Courses of Instruction	63	Departmental Requirements	105
Degrees Awarded in 1962	111	Post Office	29
Degrees	44	Prizes	
Bachelor of Arts	60	Awarded in 1962	111
Bachelor of Science	60	Programs in Special Fields	36
Departmental Requirements	104	Psychology, Courses in	96
Directors, Board of	9	Departmental Requirements	106
Dormitories	29	Publications	26
Drafting	70	Public Speaking, Courses in	98
Economics, Courses in	70	Registration	59
Departmental Requirements	104	Religion, Courses in	98
Special Concentrations in	70	Requirements for Graduation	60
Education, Courses in	72	Resident Nurse	46
Educational Program	59	Rooms and Meals	43
Engineering Program	33	Romance Languages, Courses in	100
Departmental Requirements	109	Departmental Requirements	106
English, Courses in	75	Russian, Courses in	102
Departmental Requirements	104	Scholarships	47
Evening School	35	Applications	47
Expenses	39	Funds	49
Faculty	13	Sociology, Courses in	103
Fees	39	Spanish, Courses in	101
Finance, Courses in	70	Departmental Requirements	106
Special Concentration	70	Special Students	34
French, Courses in	100	Student Bureau of Employment	47
Departmental Requirements	106	Students, List of	115
Geography	78	Summer School	35
Geology	78	Supply Store	29
Geometry, Descriptive	70	Swedish, Courses in	80
German, Courses in	78	Teaching, Requirements for Certification	73
Departmental Requirements	104	Terms and Vacations	7
Government, see Political Science		Transfer Students	34
Grades of Scholarship	44	Tuition	39
Graduation	45	Tuition Exchange Program	35
Requirements for	60	Zoology, see Biology	
Greek, Courses in	69		
Departmental Requirements			
(see Classics)	104		

THE URSINUS COLLEGE CAMPUS



KEY TO THE CAMPUS

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| 1. Pfahler Hall of Science (laboratories, classrooms, Evening School) | 11. Paisley, Stauffer, Beardwood Halls, dormitories for women | 23. Duryea Hall, dormitory for women, 612 Main Street |
| 2. Curtis Hall, dormitory for men | 12. College Gymnasium | 24. Shreiner Hall, dormitory for women, 6th Avenue and Main Street |
| 3. Brodbeck Hall, dormitory for men | 13. Thompson-Gay Gymnasium | 25. South Hall, dormitory for men, 6th Avenue |
| 4. Freeland Hall, with Stine (left) and Derr (right) Halls (present dining hall, kitchen, dormitories for men) | 14. Heating and Power Plant | 26. Hobson Hall, dormitory for women, 568 Main Street |
| 5. Bomberger Memorial Hall (chapel, classrooms, administration, lounge, recreation, etc.) | 15. Dining Hall (1964-1965) | 27. Fetterolf House, dormitory for men, 554 Main Street |
| 6. Post Office and Supply Store | 16. Dormitory for women, 944 Main Street | 28. Super House, President's home, 542 Main Street |
| 7. Alumni Memorial Library | 17. Dormitory for women, 942 Main Street | 29. Trinity Church, United Church of Christ |
| 8. Studio Cottage | 18. Fircroft Hall, dormitory for men, 940 Main Street | 30. The Parsonage, 522 Main Street |
| 9. Infirmary | 19. Dormitory for men, 801 Main Street | 31. Maples Hall, dormitory for men, 520 Main Street |
| 10. Maintenance Building | 20. Dormitory for men, 724 Main Street | 32. Dormitory for men, 513 Main Street |
| | 21. Dormitory for women, 646 Main Street | 33. Clamer Hall, dormitory for women, 409 Main Street |
| | 22. Alumni, Publicity and Development Office, dormitory for men, 620 Main Street | |